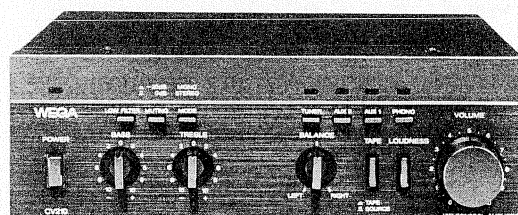


8/1980

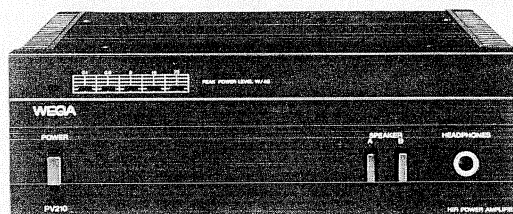
FM/MW/LW 3 BAND TUNER MINI MODUL T210



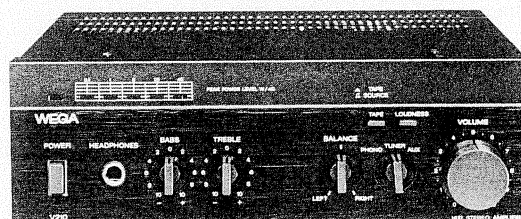
HIFI CONTROL AMPLIFIER MINI MODUL CV210



HIFI POWER AMPLIFIER MINI MODUL PV210



HIFI POWER AMPLIFIER MINI MODUL V210



HIFI CASSETTE DECK MINI MODUL C210



SPECIFICATIONS = T210

Semiconductors: 4 ICs, 2 FETs, 28 transistors
22 diodes, 6 LEDs, 4-LED
digit numerical display

Power source: AC 220V
50 Hz

Power consumption: 7W

Dimensions: 250(W) x 71(H) x 255.5(D) mm

Weight: 2.2 kg (21.5N)

< FM SECTION >

Frequency range: 87.3 ~ 108.5 MHz

Intermediate frequency: 10.7 ± 0.1 MHz

Usable sensitivity: 7 ± 2 dB (at 88 MHz)
6 ± 2 dB (at 98, 108 MHz)

S/N 50 dB sensitivity: 13 ± 2 dB
(at 88, 98, 108 MHz)

S/N ratio: More than 65 dB

Distortion: Less than 0.2%

Frequency response: 30 ~ 15,000 Hz (+0.5 dB)
-1.5 dB

Image interference ratio: More than 40 dB

IF interference ratio: More than 65 dB

Capture ratio: More than 2 dB

AM suppression ratio: More than 50 dB

Selectivity: 68 ± 4 dB (±400 kHz)

Stereo separation: More than 43 dB (at 1 kHz)
More than 38 dB
(at 100 Hz, 6 kHz)

Muting sensitivity: 16 ± 6 dB

< AM SECTION >

Frequency range: MW: 515 ~ 1650 kHz
LW: 145 ~ 360 kHz

Intermediate frequency: 455 ± 3 kHz

Sensitivity: MW: 53 ± 3 dB (600 kHz)
51 ± 3 dB (1000, 1400 kHz)
LW: 62 ± 3 dB (160 kHz)
60 ± 3 dB (250, 350 kHz)

S/N ratio: MW: 42 ± 5 dB
LW: 39 ± 3 dB

Distortion: Less than 1.2%

Image interference ratio: More than 40 dB

Selectivity: 32 ± 5 dB (±9 kHz)

IF interference ratio: More than 30 dB

SPECIFICATIONS = CV210

Semiconductors: 2 ICs, 10 transistors,
10 diodes, 5 LEDs

Power source: AC 220V
50 Hz

Power consumption: 5W

Dimensions: 250(W) x 71(H) x 229.5(D) mm

Weight: 1.85 kg (18.1N)

S/N ratio: phono More than 82 dB
(Weighted) tuner More than 93 dB
aux 1,2 More than 93 dB
tape in More than 93 dB

Distortion: Less than 0.1%
(20 Hz ~ 20 kHz)

Frequency response: 20 ~ 20,000 Hz (±0.5 dB)

Tone controls: Bass 100 Hz +9 ± 2 dB
-9 ± 2 dB
Treble 10 kHz +7 ± 2 dB
-7 ± 2 dB

Loudness: 100 Hz +6.5 ± 1 dB
10 kHz +3.5 ± 1 dB

Low filter: 30 Hz -3 ± 1 dB

Channel separation: phono More than 50 dB
tuner More than 50 dB
aux 1,2

Input sensitivity and impedance: phono 2.5mV (200 mV
max input)
tuner 150mV/47 kΩ
aux 1,2

Tape monitor: play 150mV/47 kΩ
rec out 150mV/47 kΩ

Output level: 870 ± 50 mV (phono -52 dB in)
870 ± 50 mV
(tuner, aux 1,2 -16.5 dB in)

Residual noise: phono Less than -83 dB
tuner Less than -94 dB
aux 1,2

SPECIFICATIONS = PV210

Semiconductors: 4 ICs, 2 FETs, 10 transistors,
25 diodes, 6 LEDs

Power source: AC 220V
50 Hz

Power consumption: 240W

Dimensions: 250(W) x 71(H) x 218(D) mm

Weight: 4.1 kg (40.2 N)

Power output: 35W + 35W
(4Ω, 0.1% distortion,
20 Hz ~ 20 kHz)

Distortion: Less than 0.02%
(1 kHz, 35W)

S/N ratio: More than 105 dB
(1 kHz, IHF A curve)

Frequency response: 10 ~ 100,000 Hz (More than -3 dB)

Power bandwidth: 5 ~ 60,000 Hz
(Distortion: 0.12%)

Residual noise: Less than 0.5mV

Output voltage: phones More than 0.85mW
±1 dB

SPECIFICATIONS = V210

Semiconductors:	5 ICs, 5 transistors, 12 diodes, 6 LEDs	Tone controls:	BASS 100 Hz $\pm$ 10 dB TREBLE 10 kHz $\pm$ 8 dB
Power source:	AC 220V, 50 Hz	Loudness:	100 Hz 6.5 dB $\pm$ 1.5 dB 10 kHz 3.5 dB $\pm$ 1.5 dB
Power consumption:	130 W	RIAA deviation:	$\pm$ 0.2 dB (20 Hz to 20,000 Hz)
Dimensions:	210(W) x 71(H) x 200(D) mm	Channel separation: (Input terminal short)	PHONO, TUNER, AUX more than 40 dB
Weight:	3.15 kg (30.9N)	PHONO overload level:	more than 100 mV (MM, at 1 kHz)
< Power amplifier >		Channel balance:	Less than 3 dB
Effective output power:	18W + 18W (4 Ω)	Residual noise:	Less than 2 mV
Total harmonic distortion:	0.1% (1 kHz, 5W + 5W)	Input jacks	PHONO 2.5mV/47 k Ω TUNER 150mV/47 k Ω
Output bandwidth:	10 Hz to 20,000 Hz (Less than 1%) [Both channels driven, 4 ohms]	(Sensitivity/ input impedance):	AUX 150mV/47 k Ω TAPE 150mV/47 k Ω
Frequency response:	10 ~ 70,000 Hz ($^{+0.5}_{-3}$ dB)	Output jacks	TAPE 120mV/47 k Ω
< Preamplifier >		(Level/output impedance):	HEADPHONES 8 to 16 Ω SPEAKERS 8 to 16 Ω
Signal to noise ratio: (Weighted)	PHONO more than 76 dB (IHF A curve, short circuit) TUNER, AUX more than 90 dB (IHF A curve, short circuit)		

SPECIFICATIONS = C210

Semiconductors:	6 IC's, 19 transistors, 10 diodes, 11 LED's	Channel separation:	More than 35 dB (1 kHz, 0 VU)
Power source:	AC 220V, 50 Hz	Cross talk:	More than 60 dB (1 kHz, 0 VU)
Power consumption:	10W	Erasing ratio:	More than 60 dB (400 Hz, 0 VU + 10 dB)
Dimensions:	210(W) x 71(H) x 230(D) mm	Level indicator display error:	$\pm$ 1.5 dB
Weight:	2.8 kg (27.4N)	Dolby effect:	More than 8 dB
Track system:	4-track 2-channel stereo	Bias frequency:	85 kHz
Tape speed:	4.8 cm/s $\pm$ 1%	Frequency response:	METAL 25 ~ 16,000 Hz CrO ₂ 25 ~ 16,000 Hz LH 25 ~ 14,000 Hz
Wow & flutter:	According to DIN 45500 Less than 0.20% Less than 0.09% (WRMS)	Motor:	DC servo motor
Automatic stop system:	Full auto-stop	Head:	Hard premalloy head (for Rec./Pb) Ferrite head (for Erase)
Automatic shut-off action time:	5 $\pm$ 3 s.	Input:	MIC; Max. input sensitivity 0.3 mV (200 Ω ~ 10k Ω suitable)
Pinch roller pressure:	300 $\pm$ 50 g (2.94 $\pm$ 0.49N)	Output:	LINE IN; Max. input sensitivity 50 mV (More than 50 k Ω)
Take-up torque:	50 $^{+20}_{-10}$ g-cm (490 $^{+196}_{-98}$ mN·m)		LINE OUT; Standard output level 0.41V (0 VU) Optimum load impedance More than 50 k Ω
FF & rewind torque:	140 $^{+60}_{-50}$ g-cm (1372 $^{+588}_{-490}$ mN·m)		
FF & rewind time:	Less than 90 s (w/c-60 cassette)		
Playback output:	0.58 $\pm$ 0.05V (LINE)		
(TTA-161)			
Playback noise:	Less than 2.0 mV		
Rec./Pb output:	0 VU $\pm$ 1.5 dB (LINE)		
(400 Hz, 0 VU)			
Rec./Pb distortion:	METAL Less than 1.5% CrO ₂ Less than 2.0% LH Less than 1.2%		
(400 Hz, 0 VU)			
Rec./Pb S/N:	More than 43/45 dB		
(400 Hz)	(METAL, CrO ₂ , LH, DOLBY NR OFF/ON)		

SAFETY-RELATED COMPONENT WARNING!
COMPONENTS IDENTIFIED BY SHADING AND MARK
⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS
AND IN THE PARTS LIST ARE CRITICAL TO SAFE
OPERATION. REPLACE THESE COMPONENTS WITH
WEGA PARTS WHOSE PART NUMBERS APPEAR AS
SHOWN IN THIS MANUAL OR IN SUPPLEMENTS
PUBLISHED BY WEGA.

- Specifications and external appearance are subject to change without due to product improvement.
- Dolby Noise Reduction System is licensed from Dolby Laboratories.
- The name "Dolby" and  symbol are trademarks of Dolby Laboratories.

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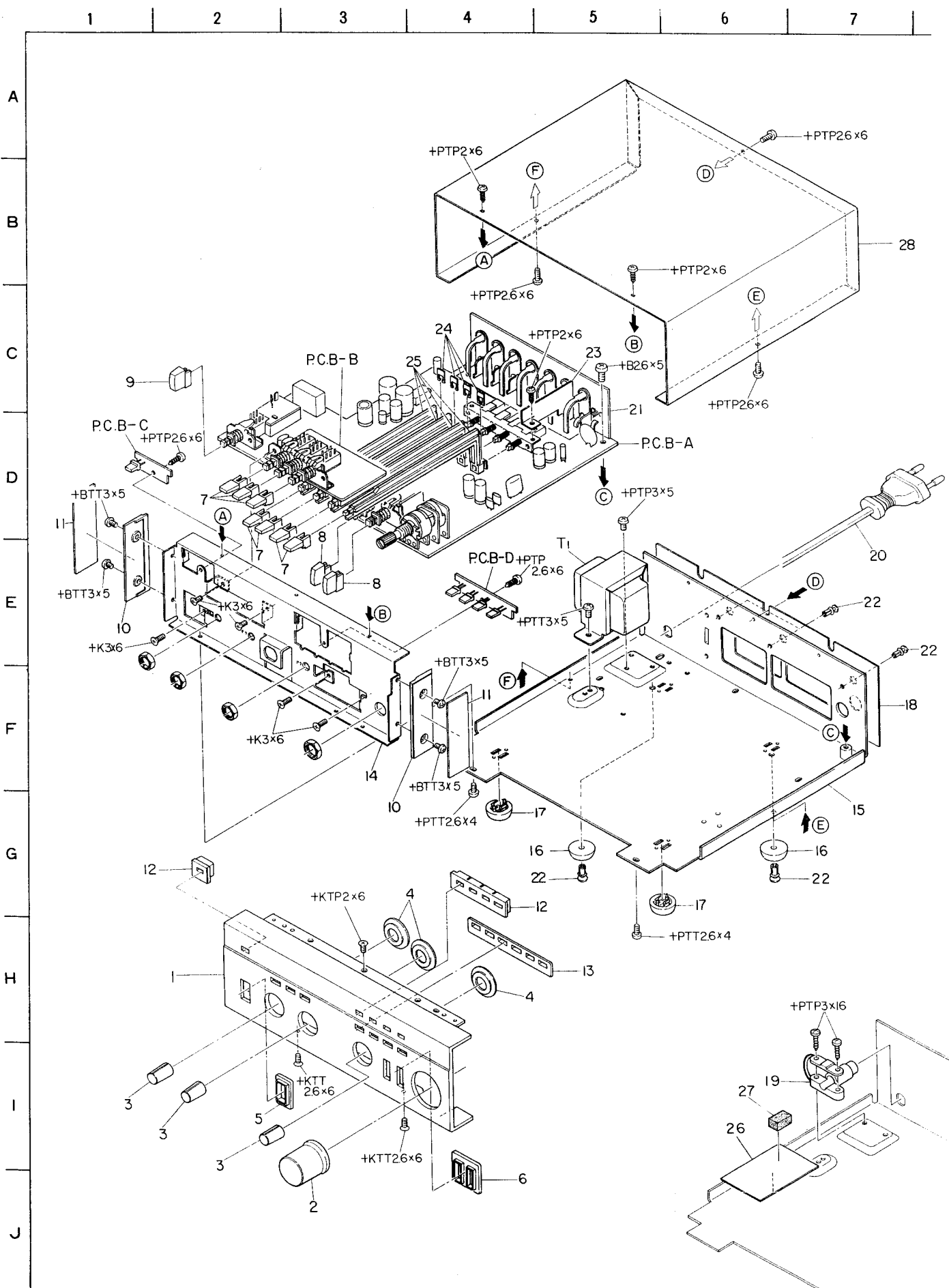
MECHANICAL SPARE PARTS

Ref. No.	Part No.	Description
1-1	9-943-005-33	Front panel
1-2	9-943-005-37	Tuning knob ass'y
1-3	9-943-005-21	Guide, Push-button (C)
1-4	9-943-005-20	Guide, Push-button (B)
1-5	9-943-005-08	Dial window
1-6	9-943-005-17	Side panel
1-7	9-943-005-16	Side panel sheet
1-8	9-943-005-43	Amp. chassis ass'y
1-9	9-943-005-22	Foot
1-10	9-943-005-41	Roller holder ass'y
1-11	9-943-000-20	Roller
1-12	9-943-006-76	Pulley A
1-13	9-943-005-35	Jack plate
1-14	9-943-002-25	Holder, AC power cord
1-15	9-943-000-01	Antenna holder ass'y
1-16	9-943-005-39	Tuning shaft
1-17	9-943-000-23	Shaft bearing
1-18	9-943-005-38	Front chassis
1-19	9-943-005-34	Display panel
1-20	9-943-005-18	Push-button (B)
1-21	9-943-005-19	Push-button (C)
1-22	9-943-000-16	Nut, Plate
1-23		String, Dial 0.4φ
1-24	9-943-005-42	Spring, Dial drum
1-25	9-943-000-19	Dial drum
1-26	9-943-005-40	Tuning flywheel
1-27	9-943-003-07	Cord bushing
1-28	1-551-530-00	AC power cord
1-29	9-943-006-77	Nylon rivet, 3.5-4.5
1-30	4-812-134-01	Nylon rivet, 3.5-5.5
1-31	9-943-005-36	Steel cabinet

ACCESSORIES AND PACKING MATERIALS = T210

Ref. No.	Part No.	Description
1	9-943-005-61	Printed indiv., Packing W
2	9-943-005-59	Cushion L, Printed indiv.
3	9-943-005-60	Cushion R, Printed indiv.
4	9-943-001-33	Poly-vinyl sack
5	9-943-000-91	Poly-vinyl sack (for case)
6	9-943-005-62	Instructions booklet W
7	9-943-002-87	Guarantee card
8	9-943-000-90	Poly-vinyl sack (for instruction)
9	9-943-006-14	Connection cord CW-129CSK
10	9-943-010-33	FM feeder antenna

EXPLODED VIEW



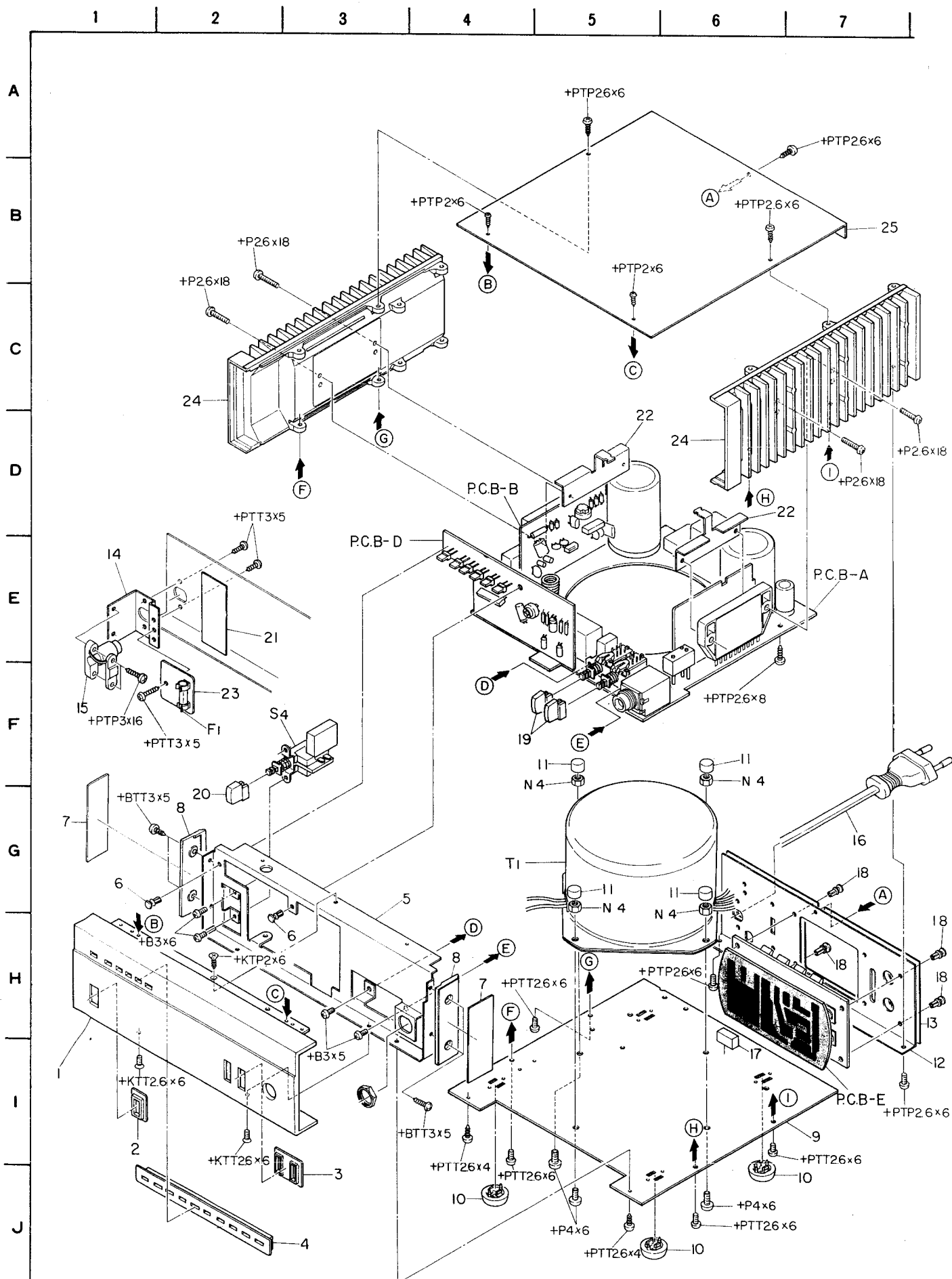
MECHANICAL SPARE PARTS

Ref. No.	Part No.	Description
1-1	9-943-005-64	Front panel H
1-2	9-943-005-24	Knob ass'y, Volume
1-3	9-943-005-26	Knob
1-4	9-943-005-27	Decorative plate, Knob
1-5	9-943-005-21	Guide, Push-button (C)
1-6	9-943-005-20	Guide, Push-button (B)
1-7	9-943-005-25	Push-button A
1-8	9-943-005-18	Push-button B
1-9	9-943-005-19	Push-button C
1-10	9-943-005-17	Side panel
1-11	9-943-005-16	Side panel sheet
1-12	9-943-005-28	Guide, LED
1-13	9-943-005-29	Guide, Switch
1-14	9-943-005-69	Front chassis
1-15	9-943-005-70	Amp. chassis
1-16	9-943-006-78	Rubber foot A
1-17	9-943-005-22	Foot
1-18	9-943-005-63	Jack plate
1-19	9-943-002-25	Holder, AC power cord
1-20	1-551-530-00	AC power cord
1-21	9-943-005-02	Jack ass'y
1-22	4-812-134-01	Nylon rivet, 3.5-5.5
1-23	9-943-005-31	Shield plate
1-24	9-943-005-68	Stopper, Rod
1-25	9-943-005-67	Rod
1-26		Insulation sheet
1-27		Cushion
1-28	9-943-005-36	Steel cabinet

ACCESSORIES AND PACKING MATERIALS = CV210

Ref. No.	Part No.	Description
1	9-943-005-79	Printed indiv., Packing W
2	9-943-005-59	Cushion L, Printed indiv.
3	9-943-005-60	Cushion R, Printed indiv.
4	9-943-001-33	Poly-vinyl sack
5	9-943-000-91	Poly-vinyl sack (for case)
6	9-943-002-87	Guarantee card
7	9-943-005-80	Instructions booklet
8	9-943-000-90	Poly-vinyl sack (for instruction)

EXPLODED VIEW



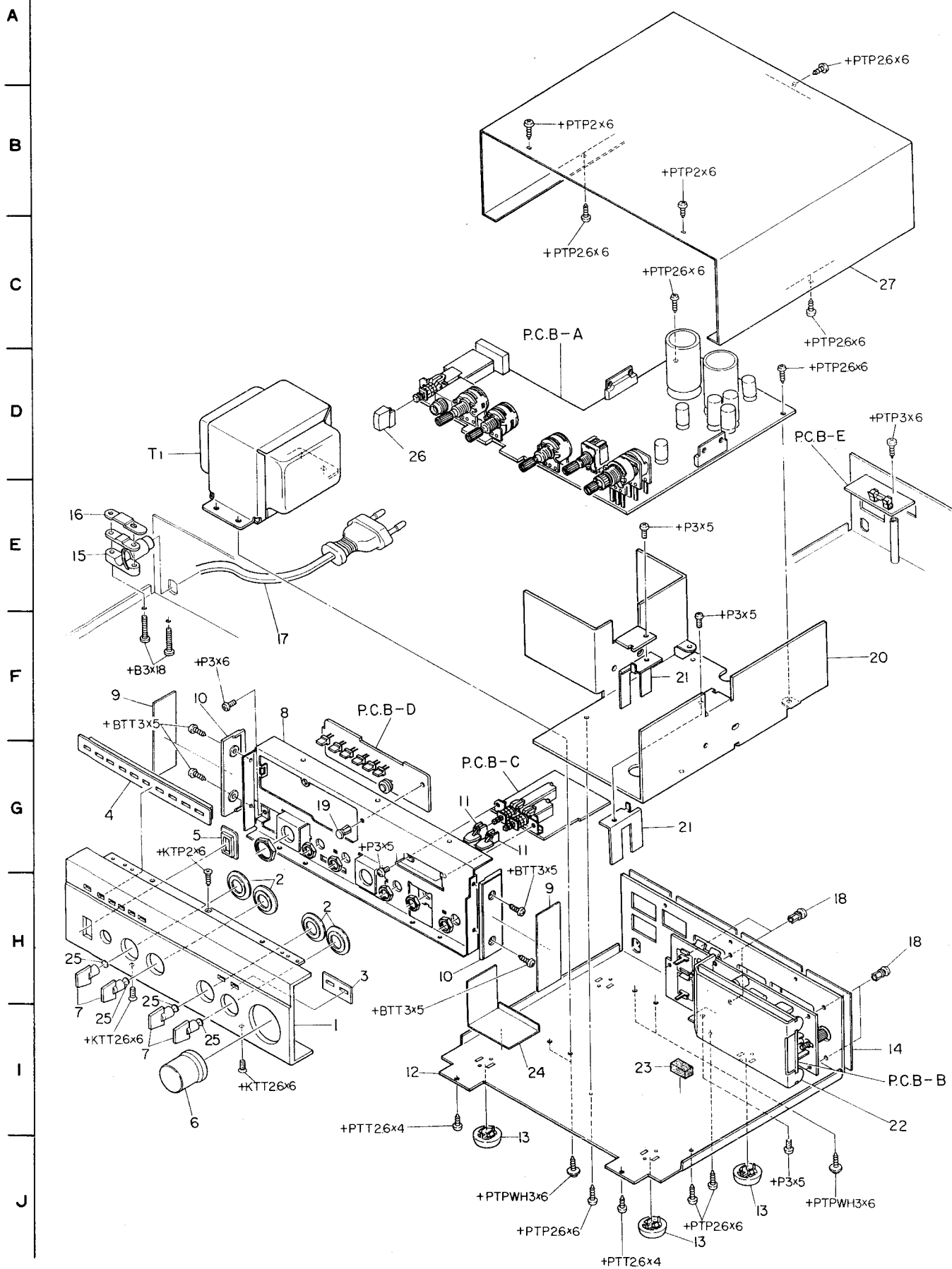
MECHANICAL SPARE PARTS

Ref. No.	Part No.	Description
1-1	9-943-005-81	Front panel
1-2	9-943-005-21	Guide, Push-button (C)
1-3	9-943-005-20	Guide, Push-button (B)
1-4	9-943-005-32	Guide, LED
1-5	9-943-005-85	Front chassis
1-6	9-943-006-77	Nylon rivet, 3.5-4.5
1-7	9-943-005-16	Side panel sheet
1-8	9-943-005-17	Side panel
1-9	9-943-005-87	Amp. chassis
1-10	9-943-005-22	Foot
1-11	9-943-005-89	Cover, Nut
1-12	9-943-005-86	Back chassis
1-13	9-943-005-84	Jack plate E
1-14	9-943-005-03	Holder AC
1-15	9-943-002-25	Holder, AC power cord
1-16	1-534-817-12	AC power cord
1-17	9-911-815-03	Cushion, 15-10-10
1-18	4-812-134-01	Nylon rivet, 3.5-5.5
1-19	9-943-005-18	Push-button (B)
1-20	9-943-005-19	Push-button (C)
1-21	9-943-005-04	Insulation sheet
1-22	9-943-005-88	Nut, Plate
1-23	9-943-003-49	Fuse holder, 1P
1-24	9-943-005-82	Heat sink
1-25	9-943-005-83	Steel cabinet

ACCESSORIES AND PACKING MATERIALS = PV210

Ref. No.	Part No.	Description
1	9-943-005-93	Printed indiv., Packing
2	9-943-005-59	Cushion L, Printed indiv.
3	9-943-005-60	Cushion R, Printed indiv.
4	9-943-001-33	Poly-vinyl sack
5	9-943-000-91	Poly-vinyl sack (for case)
6	9-943-002-87	Guarantee card
7	9-943-005-94	Instructions booklet
8	9-943-000-90	Poly-vinyl sack (for instruction)
9	9-943-006-14	Connection cord CW-129CSK

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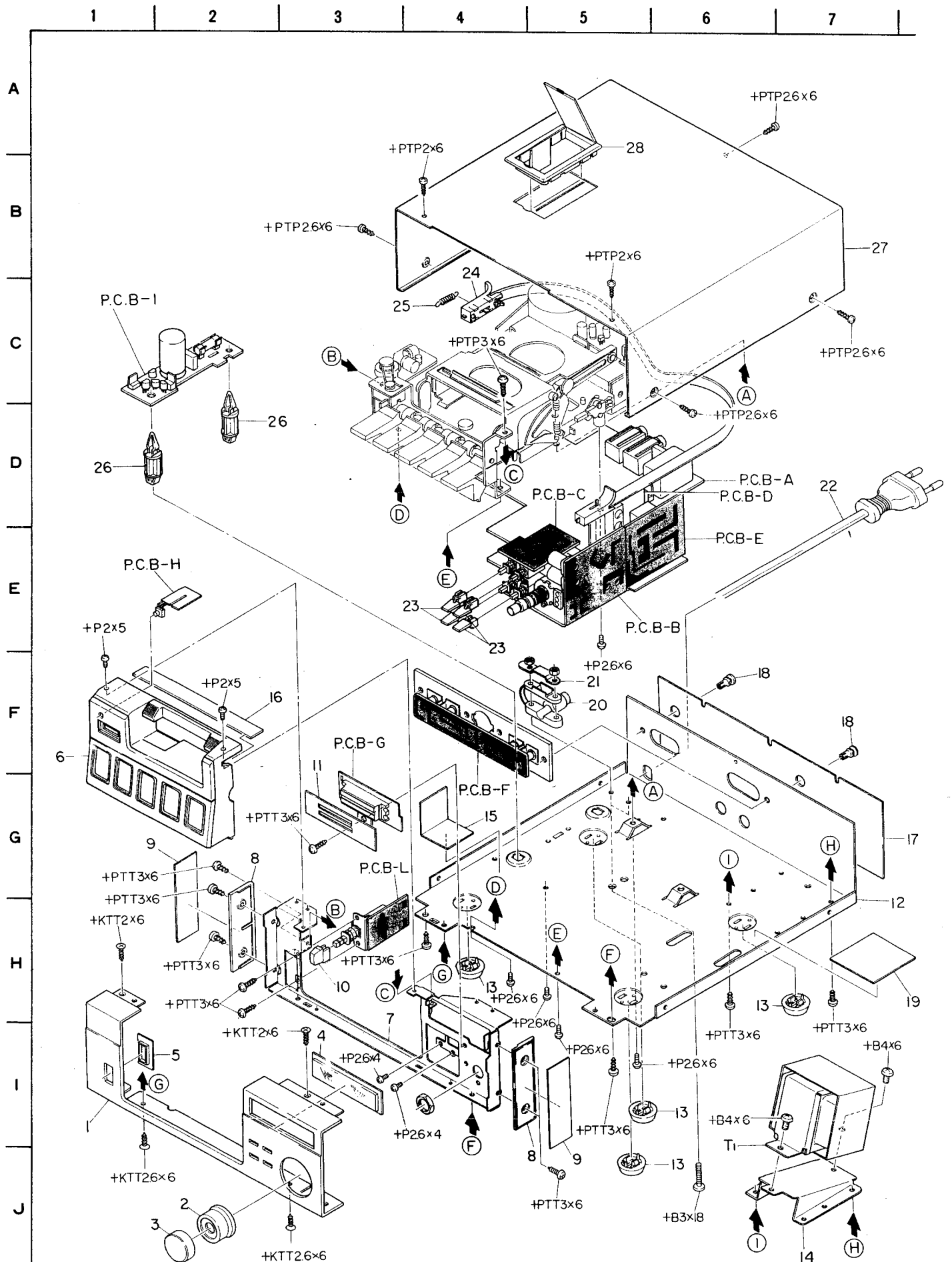
MECHANICAL SPARE PARTS

Ref. No.	Part No.	Description
1-1	9-943-005-96	Front panel
1-2	9-943-005-27	Decorative plate, knob
1-3	9-943-005-29	Switch guide
1-4	9-943-005-32	Guide, LED
1-5	9-943-005-21	Guide, Push-button (C)
1-6	9-943-005-24	Knob ass'y, Volume
1-7	9-943-005-26	Knob
1-8	9-943-005-99	Front chassis
1-9	9-943-005-16	Side panel sheet
1-10	9-943-005-17	Side panel
1-11	9-943-005-25	Push-button (A)
1-12	9-943-006-01	Amp. chassis ass'y
1-13	9-943-005-22	Foot
1-14	9-943-005-35	Jack plate
1-15	9-943-002-25	Holder, AC power cord
1-16	9-943-005-05	Plate, IC
1-17	1-551-580-00	AC power cord
1-18	4-812-134-01	Nylon rivet, 3.5-5.5
1-19	9-943-006-77	Nylon rivet, 3.5-4.5
1-20	9-943-006-02	Heat sink
1-21	9-943-005-98	Plate spring IC
1-22	9-943-003-24	Shield plate
1-23	9-911-815-03	Cushion
1-24		Insulation sheet
1-25		Spacer
1-26	9-943-005-19	Push-button (C)
1-27	9-943-005-97	Steel cabinet

ACCESSORIES AND PACKING MATERIALS = V210

Ref. No.	Part No.	Description
1	9-943-006-11	Printed indiv., Packing
2	9-943-005-59	Cushion L, Printed indiv.
3	9-943-005-60	Cushion R, Printed indiv.
4	9-943-001-33	Poly-vinyl sack
5	9-943-000-91	Poly-vinyl sack (for case)
6	9-943-002-87	Guarantee card
7	9-943-006-12	Instructions booklet W
8	9-943-000-90	Poly-vinyl sack (for instruction)

EXPLODED VIEW-1



MECHANICAL SPARE PARTS

Ref. No.	Part No.	Description
1-1	9-943-004-76	Front panel
1-2	9-943-004-73	Lower knob, REC
1-3	9-943-004-72	Upper knob, REC
1-4	9-943-004-74	Window, LED
1-5	9-943-005-21	Guide, Push-button (C)
1-6	9-943-004-68	Front cabinet ass'y
		Front cabinet
		Decorative cassette plate
	9-943-004-69	Cassette lid
		Cassette plate
		Push-key plate
	9-943-002-16	Shaft, Cassette lid
	9-943-002-18	T-spring, Cassette lid
		Adhesive sheet, Cassette plate
		Adhesive sheet, PK plate
1-7	9-943-004-79	Front chassis
1-8	9-943-005-17	Side panel
1-9	9-943-005-16	Side panel sheet
1-10	9-943-005-19	Push-button (C)
1-11	9-943-004-70	LED plate
1-12	9-943-004-81	Amp. chassis
1-13	9-943-005-22	Foot
1-14	9-943-002-21	Holder, Transformer
1-15		Insulation sheet
1-16		Spacer
1-17	9-943-004-77	Jack plate
1-18	4-812-134-01	Nylon rivet, 3.5-5.5
1-19	9-943-002-51	Insulation fiber
1-20	9-943-002-25	Holder, AC power cord
1-21	9-943-005-05	Plate, IC
1-22	1-551-580-00	AC power cord
1-23	9-943-005-25	Push-button (A)
1-24	9-943-002-76	Wire, Remote switch
1-25	9-943-002-17	E-spring, REC switch
1-26	9-943-002-14	Holder, PCB
1-27	9-943-004-62	Steel cabinet
1-28	9-943-001-95	Head cover

ACCESSORIES AND PACKING MATERIALS = C210

Ref. No.	Part No.	Description
1	9-943-004-95	Printed indiv., Packing
2	9-943-004-93	Cushion L, Printed indiv.
3	9-943-004-94	Cushion R, Printed indiv.
4	9-943-001-33	Poly-vinyl sack
5	9-943-000-91	Poly-vinyl sack
6	9-943-002-87	Guarantee card
7	9-943-010-44	Instructions booklet W
8	9-943-000-90	Poly-vinyl sack (for instruction)
9	9-943-006-14	Connection cord CW-129CSK
10	9-943-009-62	Head cleaning stick ass'y

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Ref. No.	Part No.	Description
2-1	9-943-004-71	Push-key W
2-2	9-943-003-71	Spring, Push-key
2-3	9-943-010-42	Lever, Stopper
2-4	9-943-003-73	Counter
2-5	9-943-003-74	Holder, Lever
2-6	9-943-003-75	Belt, Reel platform
2-7	9-943-003-76	Pulley plate ass'y
2-8	9-943-003-77	Belt, Counter
2-9	9-943-003-78	Shaft, Push-key
2-10	9-943-003-79	Spring, REC lever
2-11	9-943-003-80	REC lever ass'y
2-12	9-943-003-81	Holder, REC SW plate spring
2-13	9-943-003-56	REC SW holder ass'y
2-14	9-943-003-57	Spring, REC
2-15	9-943-003-58	Holder
2-16	9-943-003-59	Spacer, Bracket
2-17	9-943-003-60	CAS bracket B
2-18	9-943-003-61	PR spring holder
2-19	9-943-002-62	CAS bracket A Ass'y
2-20	9-943-003-68	Cassette case ass'y
2-21	9-943-010-47	CAS stopper
2-22	9-943-003-63	Holder, SSW
2-23	9-943-003-64	Holder UD plate ass'y
2-24	9-943-003-65	Spring, UD plate
2-25	9-943-003-66	Spring, Stop lever
2-26	9-943-003-67	Holder UD lever ass'y
2-27	9-943-004-41	Mechanism chassis ass'y

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Ref. No.	Part No.	Description
3-1	9-943-003-82	Pulley, Counter
3-2	9-943-003-83	Shaft, REW reel
3-3	9-943-003-84	Spring, STE lever
3-4	9-943-003-85	Lever, FF
3-5	9-943-003-86	Lever, REW
3-6	9-943-003-87	Spring, FRD lever
3-7	9-943-003-88	Lever, STE
3-8	9-943-003-89	Lock spring
3-9	9-943-003-90	Cam plate
3-10	9-943-003-91	Screw (for thrust adjustment)
3-11	9-943-003-92	Nut, Flywheel bearing
3-12	9-943-003-93	Flywheel bearing ass'y
3-13	9-943-003-94	Belt
3-14	9-943-003-95	Flywheel ass'y
3-15	9-943-003-96	Flywheel bearing shaft ass'y
3-16	9-943-003-97	FF arm ass'y
3-17	9-943-003-98	Spring, FF arm
3-18	9-943-004-99	Steel ball
3-19	9-943-004-53	HP slide plate spring
3-20	9-943-004-02	Spring, Clutch lever
3-21	9-943-004-03	REC lock plate ass'y
3-22	9-943-010-48	Spring, REC lock
3-23	9-943-004-05	Pause lever ass'y
3-24	9-943-004-06	Spring, FRD lever
3-25	9-943-004-07	HP spacer
3-26	9-943-004-08	PR lever F ass'y
3-27	9-943-004-09	Stopper, Head
3-28	9-943-004-10	Spring, Azimuth
3-29	9-943-004-11	Post A, Azimuth
3-30	9-943-004-12	Head plate ass'y
3-31	9-943-004-13	HP spring
3-32	9-943-004-14	HP lock spacer
3-33	9-943-004-15	Spring, Brake
3-34	9-943-004-16	Brake lever
3-35	9-943-004-17	BT spring
3-36	9-943-004-18	Take up reel platform ass'y
3-37	9-943-004-19	Cam, Pause
3-38	9-943-004-20	Idler ass'y
3-39	9-943-004-21	REW arm ass'y
3-40	9-943-004-22	Spring, REW arm
3-41	9-943-004-23	Supply reel platform ass'y
3-42	9-943-004-24	Pulley, Motor
3-43	9-943-004-25	Holder, SW
3-44	9-943-004-26	Spring, Solenoid
3-45	9-943-004-27	Lock eject plate ass'y
3-46	9-943-004-28	Tension pulley
3-47	9-943-004-29	Roller, SFR lever
3-48	9-943-004-30	Shaft, HP lock
3-49	9-943-004-31	Lock plate
3-50	9-943-004-32	Clutch ass'y
3-51	9-943-004-33	Spring lock lever
3-52	9-943-004-34	FRD lock lever ass'y
3-53	9-943-010-49	Flywheel shaft bearing ass'y
3-54	9-943-004-36	Flywheel ass'y (S)
3-55	9-943-004-37	Belt, Clutch
3-56	9-943-004-38	PR spring F
3-57	9-943-004-61	FF lever, SP

ELECTRICAL PARTS LIST

Ref. No.	Part No.	Description
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SEMICONDUCTORS

Transistors

Q1	9-943-006-23	FET, 2SK49 (H2)
Q2,3	9-943-000-75	2SC1923 (O)
Q4	8-729-671-14	2SC710 (D)
Q5	9-943-000-62	FET, 3SK73 (GR)
Q6	9-943-000-73	2SC380 (O)
Q7,8,9,10,11, Q12,13,14, Q15,17,18, Q22,29,30	8-729-281-52	2SC1815 (Y)
Q16,24~28	8-729-201-52	2SA1015 (Y)
Q19,20	9-943-000-76	2SD227 (V)
Q21	8-729-288-03	2SD880 (Y,GR)
Q23	9-943-000-74	2SC1846 (R)

I.C.'s

IC1	8-759-312-11	HA11211
IC2	8-759-320-16	HA12016
IC3	9-943-000-39	T-1400J
IC4	8-759-814-04	LB-1405

Diodes

D1	9-943-000-66	1S2236
D2,3,8,9,11, D12,13,14,15, D16,17,18	8-719-815-55	1S1555
D4,5,6,7	8-719-422-21	1S188 (FM)
D19,20,21,22	9-943-006-27	S5277B
D23	8-719-910-66	HZ6B3L
D24~28	9-943-006-35	LED, LN05202P
D29	9-943-000-65	LED, SR105D
D30	9-943-006-40	LED, LN5431GA-3A

COILS AND TRANSFORMERS

L1	9-943-005-47	FM antenna
L2	9-943-005-48	FM RF
L3,4,10,17, L18,19,12~16	9-943-000-54	Choke, 2.2μH
L5		
L6,7	9-943-005-56	MW, LW bar antenna
L8	9-943-005-45	MW OSC
L9	9-943-005-46	LW OSC
L11	9-943-005-06	Coil, Quad

T1	9-943-005-57	Power transformer
LPF1,2	9-943-005-01	Low-pass filter
CF1	9-943-000-59	FM ceramic filter, MS2GKK
CF2,3	9-943-000-58	Ceramic filter, MA8KY-A
IFT1	9-943-000-33	FM IFT
IFT2	9-943-000-57	AM IFT (DET)
CFT1	9-943-000-67	Ceramic filter transformer 016

SWITCHES

S1~5	9-943-005-52	Push-switch (FM, MW, LW, AFC/MUTE, HI-BLEND)
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S6	9-943-006-46	Push-switch (POWER)
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Ref. No.	Part No.	Description
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PRINTED CIRCUIT BOARD

COMBI-PCB	9-943-010-55	Combination circuit board
PCB-B		Display circuit board
PCB-A		Main circuit board

PCB-C	9-943-005-55	Relay circuit board
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RESISTORS

Refer to page 23,26 for their part numbers
kΩ: 1000Ω, MΩ: 1000kΩ.

SFR1	9-943-006-18	Semi-fixed resistor, 4.7kΩ-B
SFR2	9-943-006-20	Semi-fixed resistor, 220kΩ-B

CAPACITORS

Refer to page 24,25 for their part numbers.

VC1~5	9-943-005-50	Variable condenser
TC1,2		
TC3	1-141-159-11	5p trimmer
TC4,6	9-943-000-60	8P trimmer
TC5,7	1-141-171-11	15p trimmer

MISCELLANEOUS

J1,2,3	9-943-000-48	Antenna terminal plate w/2p pin jack
PIN-1	9-943-000-69	Pin, 3p
PIN-2	9-943-006-71	Pin, 6p
X1	9-943-005-23	Crystal, 6.4MHz

1-551-530-00	AC power cord
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9-943-000-29	Heat sink
9-943-003-07	Cord bushing

9-943-002-25	Holder, AC power cord
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Note:

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

ELECTRICAL PARTS LIST

Ref. No.	Part No.	Description
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SEMICONDUCTORS

Transistors

Q1~4	9-943-001-23	2SA991 (F)
Q9	8-729-209-59	2SC495 (O,Y)
Q10	8-729-250-59	2SA505 (O,Y)
Q11,13,14	8-729-194-57	2SC945L (P)
Q12	8-729-103-36	2SA733 (P)

I.C.'s

IC1,2	8-759-145-58	4558DX
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Diodes

D1	9-943-001-19	1B4B41
D3,4	9-943-006-26	HZ22-3L
D5~9	9-943-006-24	MA150
D11,12	9-943-006-27	S5277B
D25	9-943-006-34	LED, LN317GP (POWER INDICATOR)
D21~24	9-943-006-33	LED, LN217RP (PHONO, AUX1, AUX2, TUNER INDICATOR)

COILS AND TRANSFORMERS

RY1,S11	9-943-006-73	Relay, 224S
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T1	 9-943-005-74	Power transformer
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SWITCHES

S1~4	9-943-005-71	Push-switch (FUNCTION)
S8,9	9-943-005-30	Push-switch (LOUDNESS, TAPE MONITOR)

S10	 9-943-006-47	Push-switch (POWER)
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S5,6,7	9-943-005-72	Push-switch (MODE, MUTING, LOW FILTER)
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PRINTED CIRCUIT BOARDS

COMBI-PCB	9-943-005-73	Combination circuit board
PCB-A		Main circuit board
PCB-B		Switch circuit board
PCB-C		LED circuit board-1
PCB-D		LED circuit board-2

MISCELLANEOUS

J1~14	9-943-005-02	Jack plate ass'y
VR1	9-943-005-75	Volume, 100kΩ-B (VOLUME)
VR2	9-943-005-76	Volume, 250kΩ-W (BALANCE)
VR3	9-943-005-78	Volume, 50kΩ-C (TREBLE)
VR4	9-943-005-77	Volume, 50kΩ-C (BASS)
PIN-1	9-943-000-69	Pin, 3P

	 1-551-530-00	AC power cord
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	9-943-005-31	Shield plate
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	 9-943-002-25	Holder, AC power cord
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Note:
The components identified by shading and mark  are critical for safety. Replace only with part number specified.

ELECTRICAL PARTS LIST

Ref. No.	Part No.	Description
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SEMICONDUCTORS

Transistors

Q11	8-729-209-59	2SC495 (O,Y)
Q1,2	8-729-215-04	FET, 2SK150GR
Q3,4	8-729-194-57	2SC945L (P)
Q5,6	8-729-658-21	2SC1583 (F)
Q7,8	9-943-006-80	2SC2631RS
Q9,10	9-943-010-51	2SA1123RS
Q12	8-729-160-51	2SB605 (L)

I.C.'s

IC1,2	9-943-006-37	STK00402
IC3	9-943-001-71	TA7317P
IC4	9-943-006-39	AN6875

Diodes

D19,29	9-943-006-27	S5277B
D30	9-943-006-36	S5277D
D31	9-943-001-72	DS-5BN-L
D1,2,5,6,21	9-943-006-25	WZ-160
D7,8	9-943-004-97	WZ-061
D11~14	8-719-300-02	SV02
D3,4,9,10	8-719-815-55	1S1555
D15,16,17		
D18,22		
D24~28	9-943-006-33	LED, LN217RP
D32	9-943-006-34	LED, LN317GP

COILS AND TRANSFORMERS

L1,2	9-943-001-54	Coil, 1μH
RY1,S5	9-943-006-74	Relay, 24V G2Z
RY2,S6	9-943-001-53	Relay, 24V MY-2

T1	9-943-005-91	Power transformer
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SWITCHES

S2,3	9-943-006-44	Push-switch (SPEAKERS A,B)
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S4	9-943-006-45	Push-switch (POWER)
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PRINTED CIRCUIT BOARDS

COMBI-PCB	9-943-005-90	Combination circuit board
PCB-A		Main circuit board
PCB-B		Driver circuit board (Rch)
PCB-C		Driver circuit board (Lch)
PCB-D		LED circuit board
PCB-E		Jack circuit board

MISCELLANEOUS

CB1,2	9-943-006-41	Circuit breaker, 2.7A
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J3	9-943-001-52	Jack, 6.3φ (PHONES)
PIN-1	9-943-004-98	Pin, 5p
J1~4,S1	9-943-005-92	Jack ass'y, w/switch

Ref. No.	Part No.	Description
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9-943-003-49	Fuse holder
1-534-817-12	AC power cord
9-943-002-25	Holder, AC power cord

RESISTORS

Refer to page 23,26 for their part numbers
kΩ: 1000 Ω, MΩ: 1000kΩ.

SFR1,2	9-943-006-17	Semi-fixed resistor, 100Ω-B
SFR3	9-943-006-19	Semi-fixed resistor, 47kΩ-B

CAPACITOR

Refer to page 24,25 for their part numbers.

C43,44	9-943-006-16	10000μF 40V electrolytic
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Note:
The components identified by shading and mark  are critical for safety. Replace only with part number specified.

ELECTRICAL PARTS LIST

Ref. No.	Part No.	Description
SEMICONDUCTORS		
Transistors		
Q4,7	8-729-209-53	2SC495 (Y)
Q5	8-729-262-72	2SC1627 (Y)
Q6	8-729-194-57	2SC945L (P)
Q8	8-729-250-53	2SA505Y
I.C.'s		
IC3,4	8-759-313-97	HA1397
IC1,2	9-943-006-31	TA7322P
IC5	9-943-006-39	AN6875
Diodes		
D1	8-719-922-72	HZ27-2
D2	9-943-001-19	1B4B41
D3,4,5,6	9-943-006-30	S2V10F
D7,8	8-719-901-63	HZ16-3
D9,10	9-943-006-28	HZ4C2
D11,12	8-719-815-55	1S1555
D13,14,15, D16,17 }	9-943-006-33	LED, LN217RP (POWER INDICATOR)
D18	9-943-006-34	LED, LN317GP
COILS AND TRANSFORMERS		
L1,2	9-943-001-54	Coil, 1μH
T1	9-943-006-06	Power transformer

SWITCHES

S1	9-943-003-37	Rotary switch (FUNCTION)
S4	9-943-006-47	Push-switch (POWER)
S2,3	9-943-005-30	Push-switch (TAPE MONITOR, LOUDNESS)

PRINTED CIRCUIT BOARDS

COMBI-PCB	9-943-006-05	Combination circuit board
PCB-A		Main circuit board
PCB-B		Phono amp. circuit board
PCB-C		Switch circuit board
PCB-D		LED circuit board

PCB-E	9-943-006-04	AC circuit board
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MISCELLANEOUS

J11	9-943-006-72	Jack, 6.3φ (PHONES)
PIN-1	9-943-004-98	Pin, 5p
J1,2,3,4 J5,6,7,8 J9,10 }	9-943-006-07	Pin jack ass'y (PHONO, TUNER, AUX, TAPE PLAY, TAPE REC, GND)

F1	1-532-066-11	Fuse, "T" 400mA
	9-943-003-31	Fuse label, "T" 400mA

Ref. No.	Part No.	Description
	9-943-002-75	Fuse clamp
	1-551-530-00	AC power cord
	9-943-003-24	Shield plate
	9-943-005-82	Heat sink
	9-943-006-02	Heat sink
	9-943-002-25	Holder, AC power cord

RESISTORS

Refer to page 23,26 for their part numbers
kΩ: 1000 Ω, MΩ: 1000kΩ.

SFR1	9-943-006-18	Semi-fixed resistor, 4.7kΩ-B
VR1,2	9-943-005-77	Volume, 50kΩ-C (TREBLE)
VR3,4	9-943-005-78	Volume, 50kΩ-C (TREBLE)
VR7,8	9-943-005-75	Volume, 100kΩ-B (VOLUME)
VR9	9-943-005-76	Volume, 250kΩ-W (BALANCE)

CAPACITORS

Refer to page 24,25 for their part numbers.

C66,67	9-943-003-50	3300μF 35V electrolytic
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Note:

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

ELECTRICAL PARTS LIST

Ref. No.	Part No.	Description
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SEMICONDUCTORS

Transistors

Q3,4	9-943-002-81	2SD655 (E)
Q5	8-729-103-36	2SA733 (P)
Q6,7	8-729-194-57	2SC945L (P)
Q8,9,10,12, Q13,15,16	8-729-281-54	2SC1815 (BL)
Q14	9-943-006-79	2SC1383 (R)
Q1,2	8-729-281-52	2SC1815 (GR)

I.C.'s

IC1	9-943-002-60	AN7311
IC4,5	8-759-814-16	LB1416
IC6	9-943-006-32	LA3161
IC2,3	9-943-002-59	LM1011N

Diodes

D1,4 (PCB-A)	8-719-910-64	HZ6B1
D2,3 (PCB-A)	8-719-815-55	1S1555
D6 (PCB-A)	8-719-910-12	HZ11A2
D1,2 (PCB-G)	9-943-006-38	LED
D1 (PCB-H)	9-943-002-62	LED
D1 (PCB-I)	9-943-001-19	1B4B41

COILS AND TRANSFORMERS

L3,4,5,6	9-943-002-48	Micro inductor, 6.8mH
BIAS OSC UNIT	9-943-004-90	Bias OSC unit
L1,2	9-943-002-55	Bias trap, 10mH
LPF1,2	9-943-002-64	Low pass filter

T1	9-943-004-82	Power transformer
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SWITCHES

S1	9-943-004-89	Slide switch (REC/PB)
S3	9-943-006-42	Push switch (DOLBY-NR)
S4	9-943-006-43	Push switch (INPUT SELECTOR)
S2	9-943-006-42	Push switch (TAPE SELECTOR)
S5	9-943-002-67	Push switch (TAPE SELECTOR)

S8	9-943-006-46	Push switch (POWER)
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S6	9-943-004-39	Leaf switch (AUTO STOP)
S7	9-943-004-44	Leaf switch (STOP MUTING)
S9	9-943-004-52	Micro switch (MUTING)

PRINTED CIRCUIT BOARDS

COMBI-PCB	9-943-004-86	Combination circuit board
PCB-A		Main circuit board
PCB-B		REC volume circuit board
PCB-C		Switch circuit board
PCB-D		Dolby-L circuit board
PCB-E		Dolby-R circuit board
PCB-F		Jack circuit board
PCB-G		LED-1 circuit board
PCB-H		LED-2 circuit board

PCB-I	9-943-004-64	Power circuit board
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Ref. No.	Part No.	Description
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PCB-L	9-943-004-88	Power switch circuit board
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MISCELLANEOUS

PIN-1,2	9-943-002-72	Pin, 3p
J1,2,3,4	9-943-004-96	Pin jack ass'y (Line out/play, Line in/Rec.)
J5,6	9-943-002-73	Jack, 6.3φ (MIC)

F1	1-532-279-00	Fuse, "T" 500mA
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9-943-002-95	Fuse label, "T" 500mA
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9-943-002-75	Fuse clamp
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PIN-3,4	9-943-000-69	Pin, 3p
	9-943-004-58	Auto stop ass'y, w/PCB-J
	9-943-000-40	DME ass'y, w/PCB-K
RPH	9-943-002-78	REC/PB head
EH	9-943-006-75	Erase head
SOL1	9-943-004-42	Solenoid ass'y
M	9-943-003-69	DC motor

1-551-530-00	AC power cord
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	9-943-002-45	Shield plate, Motor
	9-943-000-29	Heat sink
	9-943-002-50	Shield plate, Motor
	9-943-002-25	Holder, AC power cord
	9-943-002-76	Wire, Remote switch
CON-1	9-943-002-38	3p connector ass'y
CON-2	9-943-004-92	3p connector ass'y
CON-3	9-943-002-40	3p connector ass'y
CON-4	9-943-002-41	3p connector ass'y

RESISTORS

Refer to page 23, 26 for their part numbers

kΩ: 1000 Ω, MΩ: 1000kΩ.

SFR1,2,3,4	1-226-238-11	Semi-fixed resistor, 50kΩ-B
SFR5,6		
SFR7,8	9-943-002-57	Semi-fixed resistor, 100kΩ-B
VR1,2	9-943-004-91	Volume, 50kΩ-A (REC LEVEL)

Note:

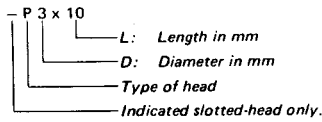
The components identified by shading and mark  are critical for safety. Replace only with part number specified.

1/4 WATT CARBON RESISTORS

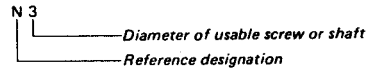
Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
1.0	1-246-401-00	10	1-246-425-00	100	1-246-449-00	1.0k	1-246-473-00	10k	1-246-497-00	100k	1-246-521-00	1.0M	1-246-545-00
1.1	1-246-402-00	11	1-246-426-00	110	1-246-450-00	1.1k	1-246-474-00	11k	1-246-498-00	110k	1-246-522-00	1.1M	1-210-814-00
1.2	1-246-403-00	12	1-246-427-00	120	1-246-451-00	1.2k	1-246-475-00	12k	1-246-499-00	120k	1-246-523-00	1.2M	1-210-815-00
1.3	1-246-404-00	13	1-246-428-00	130	1-246-452-00	1.3k	1-246-576-00	13k	1-246-500-00	130k	1-246-524-00	1.3M	1-210-816-00
1.5	1-246-405-00	15	1-246-429-00	150	1-246-453-00	1.5k	1-246-577-00	15k	1-246-501-00	150k	1-246-525-00	1.5M	1-210-817-00
1.6	1-246-406-00	16	1-246-430-00	160	1-246-454-00	1.6k	1-246-578-00	16k	1-246-502-00	160k	1-246-526-00	1.6M	1-210-818-00
1.8	1-246-407-00	18	1-246-431-00	180	1-246-455-00	1.8k	1-246-579-00	18k	1-246-503-00	180k	1-246-527-00	1.8M	1-210-819-00
2.0	1-246-408-00	20	1-246-432-00	200	1-246-456-00	2.0k	1-246-580-00	20k	1-246-504-00	200k	1-246-528-00	2.0M	1-210-820-00
2.2	1-246-409-00	22	1-246-433-00	220	1-246-457-00	2.2k	1-246-581-00	22k	1-246-505-00	220k	1-246-529-00	2.2M	1-210-821-00
2.4	1-246-410-00	24	1-246-434-00	240	1-246-458-00	2.4k	1-246-582-00	24k	1-246-506-00	240k	1-246-530-00	2.4M	1-244-754-00
2.7	1-246-411-00	27	1-246-435-00	270	1-246-459-00	2.7k	1-246-583-00	27k	1-246-507-00	270k	1-246-531-00	2.7M	1-244-755-00
3.0	1-246-412-00	30	1-246-436-00	300	1-246-460-00	3.0k	1-246-584-00	30k	1-246-508-00	300k	1-246-532-00	3.0M	1-244-756-00
3.3	1-246-413-00	33	1-246-437-00	330	1-246-461-00	3.3k	1-246-585-00	33k	1-246-509-00	330k	1-246-533-00	3.3M	1-244-757-00
3.6	1-246-414-00	36	1-246-438-00	360	1-246-462-00	3.6k	1-246-586-00	36k	1-246-510-00	360k	1-246-534-00	3.6M	1-244-758-00
3.9	1-246-415-00	39	1-246-439-00	390	1-246-463-00	3.9k	1-246-587-00	39k	1-246-511-00	390k	1-246-535-00	3.9M	1-244-759-00
4.3	1-246-416-00	43	1-246-440-00	430	1-246-464-00	4.3k	1-246-488-00	43k	1-246-512-00	430k	1-246-536-00	4.3M	1-244-760-00
4.7	1-246-417-00	47	1-246-441-00	470	1-246-465-00	4.7k	1-246-489-00	47k	1-246-513-00	470k	1-246-537-00	4.7M	1-244-761-00
5.1	1-246-418-00	51	1-246-442-00	510	1-246-466-00	5.1k	1-246-490-00	51k	1-246-514-00	510k	1-246-538-00	5.1M	1-244-762-00
5.6	1-246-419-00	56	1-246-443-00	560	1-246-467-00	5.6k	1-246-491-00	56k	1-246-515-00	560k	1-246-539-00		
6.2	1-246-420-00	62	1-246-444-00	620	1-246-468-00	6.2k	1-246-492-00	62k	1-246-516-00	620k	1-246-540-00		
6.8	1-246-421-00	68	1-246-445-00	680	1-246-469-00	6.8k	1-246-493-00	68k	1-246-517-00	680k	1-246-541-00		
7.5	1-246-422-00	75	1-246-446-00	750	1-246-470-00	7.5k	1-246-494-00	75k	1-246-518-00	750k	1-246-542-00		
8.2	1-246-423-00	82	1-246-447-00	820	1-246-471-00	8.2k	1-246-495-00	82k	1-246-519-00	820k	1-246-543-00		
9.1	1-246-424-00	91	1-246-448-00	910	1-246-472-00	9.1k	1-246-496-00	91k	1-246-520-00	910k	1-246-544-00		

HARDWARE NOMENCLATURE

Screw:



Nut, Washer, Retaining ring:



Reference Designation	Shape	Description	Remarks
SCREWS			
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW PSPW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R		round-head screw	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
RK		oval-countersunk-head screw	
B		binding-head screw	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-fillister-head screw	
RF		fillister-head screw	
BV		braizer-head screw	

Reference Designation	Shape	Description	Remarks
SELF-TAPPING SCREWS			
TA		self-tapping screw	ex: TA, P 3 x 10
PTP		pan-head self-tapping screw	binding-head self-tapping (TA, B) screw for replacement
PTPWH		pan-head self-tapping screw with washer face	binding-head self-tapping (TA, B) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
SET SCREWS			
SC		set screw	
SC		hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
NUT			
N		nut	
WASHERS			
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW		external-tooth lock washer	ex: LW3, external
RETAINING RINGS			
E		retaining ring	
G		grip-type retaining ring	

ELECTROLYTIC CAPACITORS

CAP. (μF)	RATING → : Use the high voltage rated one.					
	6.3 VOLT.	10 VOLT.	16 VOLT.	25 VOLT.	35 VOLT.	50 VOLT.
	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.47					→	1-121-726-00
1.0					→	1-121-391-00
2.2					→	1-121-450-00
3.3	→	→	→	1-121-392-00	→	1-121-393-00
4.7	→	→	→	1-121-395-00	→	1-121-396-00
10	→	→	1-121-651-00	1-121-398-00	→	1-121-738-00
22	→	→	1-121-479-00	1-121-480-00	1-121-662-00	1-121-152-00
33	→	→	1-121-403-00	1-121-404-00	1-121-652-00	1-121-405-00
47	→	1-121-352-00	1-121-409-00	1-121-410-00	1-121-653-00	1-121-411-00
100	→	1-121-414-00	1-121-415-00	1-121-416-00	1-121-357-00	1-121-417-00
220	1-121-412-00	1-121-420-00	1-121-421-00	1-121-422-00	1-121-261-00	1-121-423-00
330	1-121-751-00	1-121-805-00	1-121-521-00	1-121-654-00	1-121-655-00	1-121-656-00
470	1-121-424-00	1-121-425-00	1-121-426-00	1-121-733-00	1-121-361-00	1-121-810-00
1000	—	1-121-736-00	1-121-245-00	1-121-657-00	1-121-388-00	1-123-061-00
2200	1-121-658-00	1-121-659-00	1-121-660-00	1-123-067-00	1-121-984-00	—
3300	1-121-661-00	1-123-075-00	1-123-071-00	—	—	—

CAP. (μF)	100 VOLT.	160 VOLT.	250 VOLT.	350 VOLT.
	PART No.	PART No.	PART No.	PART No.
0.47	—	—	—	—
1.0	1-123-249-00	1-123-252-00	1-123-003-00	1-121-168-00
2.2	1-123-250-00	1-123-026-00	—	1-123-028-00
3.3	1-121-995-00	—	1-123-004-00	1-123-006-00
4.7	1-123-255-00	1-121-246-00	1-121-759-00	1-123-007-00
10	1-121-126-00	1-121-999-00	1-123-254-00	1-123-008-00
22	1-121-996-00	1-123-253-00	1-123-005-00	1-123-022-00
33	1-121-997-00	1-121-757-00	—	—
47	1-123-251-00	1-121-919-00	—	—
100	1-123-084-00	—	—	—

CERAMIC CAPACITORS

RATING							
CAP. (pF)	50 VOLT.	CAP. (pF)	50 VOLT.	CAP. (pF)	50 VOLT.	CAP. (μF)	50 VOLT.
	PART No.		PART No.		PART No.		PART No.
0.5	1-101-837-00	22	1-102-959-00	150	1-101-361-00	0.001	1-102-074-00
0.75	1-101-586-00	24	1-102-960-00	160	1-101-367-00	0.0012	1-102-118-00
1.0	1-102-934-00	27	1-102-961-00	180	1-102-976-00	0.0015	1-102-119-00
1.5	1-101-576-00	30	1-102-962-00	200	1-102-977-00	0.0018	1-102-120-00
2.0	1-102-935-00	33	1-102-963-00	220	1-102-978-00	0.0022	1-102-121-00
3	1-102-936-00	36	1-102-964-00	240	1-102-979-00	0.0027	1-102-122-00
4	1-102-937-00	39	1-102-965-00	270	1-102-980-00	0.0033	1-102-123-00
5	1-102-942-00	43	1-102-966-00	300	1-102-981-00	0.0039	1-102-124-00
6	1-102-943-00	47	1-101-880-00	330	1-102-820-00	0.0047	1-102-125-00
7	1-102-944-00	51	1-101-882-00	360	1-102-821-00	0.0056	1-102-126-00
8	1-102-945-00	56	1-101-884-00	390	1-102-822-00	0.0068	1-102-127-00
9	1-102-946-00	62	1-101-886-00	430	1-102-823-00	0.0082	1-102-128-00
10	1-102-947-00	68	1-101-888-00	470	1-102-824-00	0.01	1-102-129-00
11	1-102-948-00	75	1-101-890-00	510	1-101-059-00	0.022	1-101-005-00
12	1-102-949-00	82	1-102-971-00	560	1-102-115-00	0.047	1-101-006-00
13	1-102-950-00	91	1-102-972-00	680	1-102-116-00		
15	1-102-951-00	100	1-102-973-00	820	1-102-117-00		
16	1-102-952-00	110	1-102-815-00				
18	1-102-953-00	120	1-102-816-00				
20	1-102-958-00	130	1-101-081-00				

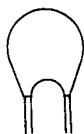
0.001μF = 1,000pF

CERAMIC (SEMICONDUCTOR) CAPACITORS

RATING → : Use the high voltage rated one.					
CAP. (μF)	25 VOLT.	50 VOLT.	CAP. (μF)	25 VOLT.	50 VOLT.
	PART No.	PART No.		PART No.	PART No.
0.001	→	1-161-039-00	0.018	1-161-016-00	1-161-054-00
0.0012	→	1-161-040-00	0.022	1-161-017-00	1-161-055-00
0.0015		1-161-041-00	0.027	1-161-018-00	1-161-056-00
0.0018		1-161-042-00	0.033	1-161-019-00	1-161-057-00
0.0022		1-161-043-00	0.039	1-161-010-00	1-161-058-00
0.0027	→	1-161-044-00	0.047	1-161-021-00	1-161-059-00
0.0033	→	1-161-045-00	0.056	→	1-161-060-00
0.0039	→	1-161-046-00	0.068	→	1-161-061-00
0.0047	→	1-161-047-00	0.082	1-161-024-00	1-161-062-00
0.0056	→	1-161-048-00	0.1	1-161-025-00	1-161-063-00
0.0068	→	1-161-049-00			
0.0082	1-161-012-00	1-161-050-00			
0.01	1-161-013-00	1-161-051-00			
0.012	→	1-161-052-00			
0.015	1-161-015-00	1-161-053-00			

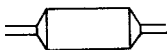
MYLAR CAPACITORS

RATING											
CAP. (μF)	50 VOLT.	100 VOLT.	200 VOLT.	CAP. (μF)	50 VOLT.	100 VOLT.	200 VOLT.	CAP. (μF)	50 VOLT.	100 VOLT.	200 VOLT.
	PART No.	PART No.	PART No.		PART No.	PART No.	PART No.		PART No.	PART No.	PART No.
0.001	1-108-227-00	1-108-365-00	1-108-409-00	0.01	1-108-239-00	1-108-377-00	1-108-421-00	0.1	1-108-251-00	1-108-389-00	1-108-433-00
0.0012	1-108-351-00	1-108-366-00	1-108-410-00	0.012	1-108-357-00	1-108-378-00	1-108-422-00	0.12	1-108-363-00	1-108-390-00	1-108-434-00
0.0015	1-108-228-00	1-108-367-00	1-108-411-00	0.015	1-108-240-00	1-108-379-00	1-108-423-00	0.15	1-108-252-00	1-108-391-00	1-108-435-00
0.0018	1-108-352-00	1-108-368-00	1-108-412-00	0.018	1-108-358-00	1-108-380-00	1-108-424-00	0.18	1-108-364-00	1-108-392-00	1-108-436-00
0.0022	1-108-230-00	1-108-369-00	1-108-413-00	0.022	1-108-242-00	1-108-381-00	1-108-425-00	0.22	1-108-254-00	1-108-393-00	1-108-437-00
0.0027	1-108-353-00	1-108-370-00	1-108-414-00	0.027	1-108-359-00	1-108-382-00	1-108-426-00	0.27	1-108-854-00	—	—
0.0033	1-108-232-00	1-108-371-00	1-108-415-00	0.033	1-108-244-00	1-108-383-00	1-108-427-00	0.33	1-108-855-00	—	—
0.0039	1-108-354-00	1-108-372-00	1-108-416-00	0.039	1-108-360-00	1-108-384-00	1-108-428-00	0.39	1-108-856-00	—	—
0.0047	1-108-234-00	1-108-373-00	1-108-417-00	0.047	1-108-246-00	1-108-385-00	1-108-429-00	0.47	1-108-857-00	—	—
0.0056	1-108-355-00	1-108-374-00	1-108-418-00	0.056	1-108-361-00	1-108-386-00	1-108-430-00				
0.0068	1-108-237-00	1-108-375-00	1-108-419-00	0.068	1-108-249-00	1-108-387-00	1-108-431-00				
0.0082	1-108-356-00	1-108-376-00	1-108-420-00	0.082	1-108-362-00	1-108-388-00	1-108-432-00				



TANTALUM CAPACITORS

RATING							
→ : Use the high voltage rated one.							
CAP. (μF)	3.15 VOLT.	6.3 VOLT.	10 VOLT.	16 VOLT.	20 VOLT.	25 VOLT.	35 VOLT.
	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.01					→	→	1-131-396-00
0.015					→	→	1-131-397-00
0.022					→	→	1-131-398-00
0.033					→	→	1-131-399-00
0.047					→	→	1-131-400-00
0.068					→	→	1-131-401-00
0.1					→	→	1-131-402-00
0.15					→	→	1-131-403-00
0.22					→	→	1-131-404-00
0.33					→	1-131-409-00	1-131-405-00
0.47	—	—	—	—	1-131-412-00	→	1-131-406-00
0.68	—	—	—	1-131-415-00	→	1-131-410-00	1-131-407-00
1.0	—	—	1-131-418-00	—	1-131-413-00	→	1-131-408-00
1.5	—	1-131-421-00	—	1-131-416-00	→	1-131-411-00	1-131-348-00
2.2	1-131-424-00	—	1-131-419-00	—	1-131-414-00	1-131-355-00	1-131-349-00
3.3	—	1-131-422-00	—	1-131-417-00	1-131-362-00	1-131-356-00	1-131-350-00
4.7	1-131-425-00	—	1-131-420-00	1-131-369-00	1-131-363-00	1-131-357-00	1-131-351-00
6.8	—	1-131-423-00	1-131-376-00	1-131-370-00	1-131-364-00	1-131-358-00	1-131-352-00
10	1-131-426-00	1-131-383-00	1-131-377-00	1-131-371-00	1-131-365-00	1-131-359-00	1-131-353-00
15	1-131-390-00	1-131-384-00	1-131-378-00	1-131-372-00	1-131-366-00	1-131-360-00	—
22	1-131-391-00	1-131-385-00	1-131-379-00	1-131-373-00	1-131-367-00		
33	1-131-392-00	1-131-386-00	1-131-380-00	1-131-374-00			
47	1-131-393-00	1-131-387-00	1-131-381-00	—			
68	1-131-394-00	1-131-388-00	—	—			
100	1-131-395-00	—	—	—			



TANTALUM CAPACITORS

RATING						
CAP. (μF)	3 VOLT.	6.3 VOLT.	10 VOLT.	16 VOLT.	20 VOLT.	35 VOLT.
	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.033						1-131-273-00
0.047						1-131-274-00
0.068						1-131-275-00
0.1						1-131-276-00
0.15						1-131-277-00
0.22			—	—	1-131-262-00	1-131-278-00
0.33			—	—	1-131-263-00	1-131-279-00
0.47			1-131-169-00	—	1-131-264-00	1-131-280-00
0.68			—	1-131-258-00	1-131-265-00	1-131-281-00
1.0			1-131-254-00	—	1-131-266-00	1-131-282-00
1.5		1-131-250-00	—	—	1-131-267-00	1-131-283-00
2.2		—	—	1-131-259-00	1-131-268-00	1-131-284-00
3.3		—	1-131-255-00	—	1-131-269-00	—
4.7		1-131-251-00	1-131-171-00	—	1-131-270-00	—
6.8		—	—	1-131-260-00	1-131-271-00	—
10	—	—	1-131-256-00	—	1-131-272-00	—
15	—	1-131-252-00	—	1-131-261-00		
22	—	—	1-131-257-00	—		
33	1-131-176-00	1-131-253-00	1-131-173-00	—		
47	1-131-288-00	1-131-174-00	—	—		
100	1-131-177-00					

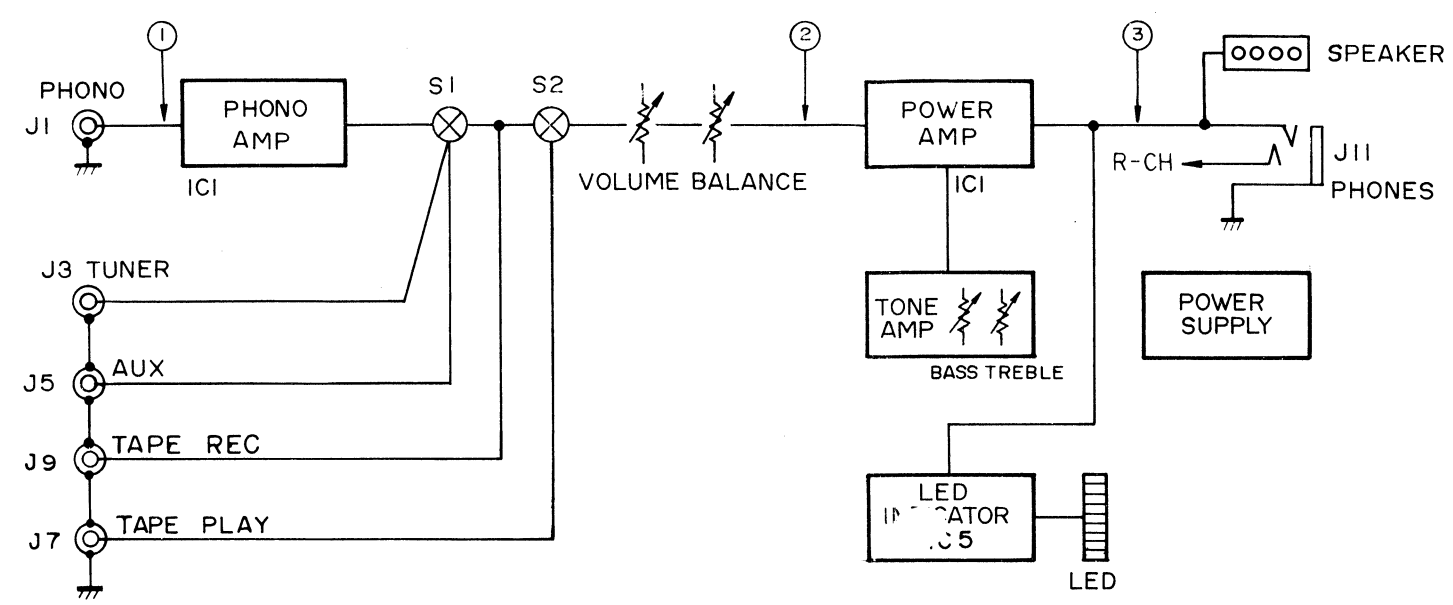
1/16 WATT CARBON RESISTOR

Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
2.0	—	13	—	91	1-210-354-00	620	1-210-367-00	4.3k	1-209-772-00	30k	1-210-380-00	200k	1-210-839-00
2.2	—	15	—	100	1-210-355-00	680	1-210-106-00	4.7k	1-209-773-00	33k	1-210-381-00	220k	1-210-840-00
2.4	—	16	—	110	1-210-356-00	750	1-210-107-00	5.1k	1-209-774-00	36k	1-210-394-00	240k	—
2.7	—	18	1-211-688-00	120	1-210-357-00	820	1-210-108-00	5.6k	1-209-775-00	39k	1-210-382-00	270k	1-210-841-00
3.0	—	20	—	130	1-210-358-00	910	1-210-368-00	6.2k	1-209-776-00	43k	1-210-383-00	300k	—
3.3	—	22	—	150	1-210-102-00	1.0k	1-204-122-00	6.8k	1-209-777-00	47k	1-210-384-00	330k	1-210-842-00
3.6	—	24	—	160	1-210-359-00	1.1k	1-210-369-00	7.5k	1-209-778-00	51k	1-210-385-00	360k	—
3.9	—	27	—	180	1-210-360-00	1.2k	1-209-765-00	8.2k	1-209-779-00	56k	1-210-386-00	390k	1-210-843-00
4.3	—	30	1-210-845-00	200	1-210-361-00	1.3k	1-210-370-00	9.1k	1-209-780-00	62k	1-210-387-00	430k	—
4.7	—	33	1-210-846-00	220	1-210-362-00	1.5k	1-209-766-00	10k	1-209-781-00	68k	1-210-388-00	470k	1-210-844-00
5.1	—	36	1-210-847-00	240	1-209-762-00	1.6k	1-210-371-00	11k	1-210-374-00	75k	1-210-389-00	510k	—
5.6	—	39	1-210-848-00	270	1-210-363-00	1.8k	1-209-878-00	12k	1-210-111-00	82k	1-210-390-00	560k	1-211-695-00
6.2	—	43	1-210-849-00	300	1-210-364-00	2.0k	1-209-767-00	13k	1-210-375-00	91k	1-210-391-00	620k	—
6.8	—	47	1-210-395-00	330	1-209-763-00	2.2k	1-209-768-00	15k	1-210-112-00	100k	1-210-115-00	680k	1-211-696-00
7.5	—	51	1-210-101-00	360	1-210-103-00	2.4k	1-209-769-00	16k	1-210-376-00	110k	—	750k	—
8.2	—	56	1-210-351-00	390	1-210-365-00	2.7k	1-209-770-00	18k	1-210-113-00	120k	1-210-836-00	820k	1-211-698-00
9.1	—	62	1-210-352-00	430	1-210-366-00	3.0k	1-210-372-00	20k	1-210-377-00	130k	—	910k	—
10	—	68	1-210-353-00	470	1-209-764-00	3.3k	1-204-123-00	22k	1-210-114-00	150k	1-210-837-00	1 M	—
11	—	75	1-210-392-00	510	1-210-104-00	3.6k	1-210-373-00	24k	1-210-378-00	160k	—	—	—
12	—	82	1-210-393-00	560	1-210-105-00	3.9k	1-209-771-00	27k	1-210-379-00	180k	1-210-838-00	—	—

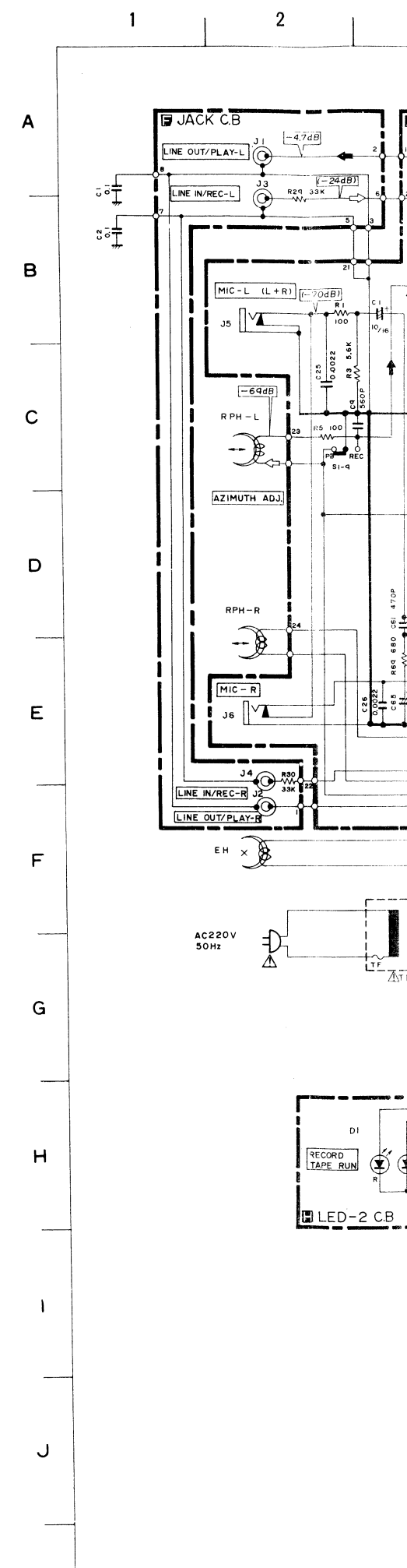
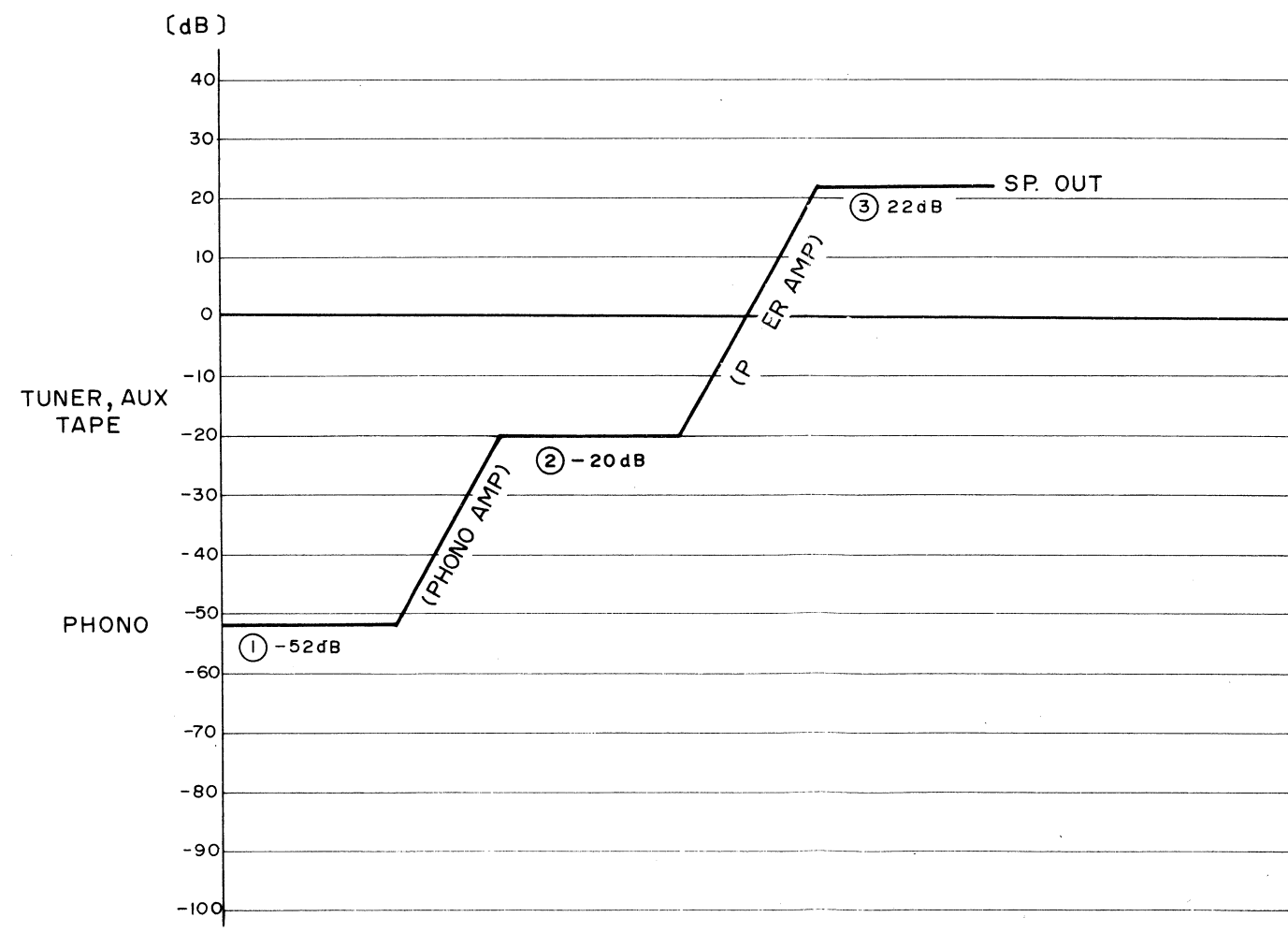
1/8 WATT CARBON RESISTOR

Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
2.0	—	13	1-246-821-00	91	1-246-831-00	620	1-246-841-00	4.3k	1-246-851-00	30k	1-246-861-00	200k	1-246-871-00
2.2	1-246-751-00	15	1-246-761-00	100	1-246-771-00	680	1-246-781-00	4.7k	1-246-791-00	33k	1-246-801-00	220k	1-246-811-00
2.4	—	16	1-246-822-00	110	1-246-832-00	750	1-246-842-00	5.1k	1-246-852-00	36k	1-246-862-00	240k	1-247-054-00
2.7	1-246-752-00	18	1-246-762-00	120	1-246-772-00	820	1-246-782-00	5.6k	1-246-792-00	39k	1-246-802-00	270k	1-247-046-00
3.0	—	20	1-246-823-00	130	1-246-833-33	910	1-246-843-00	6.2k	1-246-853-00	43k	1-246-863-00	300k	1-247-055-00
3.3	1-246-753-00	22	1-246-763-00	150	1-246-773-00	1.0k	1-246-783-00	6.8k	1-246-793-00	47k	1-246-803-00	330k	1-247-047-00
3.6	—	24	1-246-824-00	160	1-246-834-00	1.1k	1-246-844-00	7.5k	1-246-854-00	51k	1-246-864-00	360k	1-247-056-00
3.9	1-246-754-00	27	1-246-764-00	180	1-246-774-00	1.2k	1-246-784-00	8.2k	1-246-794-00	56k	1-246-804-00	390k	1-247-048-00
4.3	—	30	1-246-825-00	200	1-246-835-00	1.3k	1-246-845-00	9.1k	1-246-855-00	62k	1-246-865-00	430k	1-247-057-00
4.7	1-246-755-00	33	1-246-765-00	220	1-246-775-00	1.5k	1-246-785-00	10k	1-246-795-00	68k	1-246-805-00	470k	1-247-049-00
5.1	—	36	1-246-826-00	240	1-246-836-00	1.6k	1-246-846-00	11k	1-246-856-00	75k	1-246-866-00	510k	1-247-058-00
5.6	1-246-756-00	39	1-246-766-00	270	1-246-776-00	1.8k	1-246-786-00	12k	1-246-796-00	82k	1-246-806-00	560k	1-247-050-00
6.2	—	43	1-246-827-00	300	1-246-837-00	2.0k	1-246-847-00	13k	1-246-857-00	91k	1-246-867-00	620k	1-247-059-00
6.8	1-246-757-00	47	1-246-767-00	330	1-246-777-00	2.2k	1-246-787-00	15k	1-246-797-00	100k	1-246-807-00	680k	1-247-051-00
7.5	1-246-818-00	51	1-246-828-00	360	1-246-838-00	2.4k	1-246-848-00	16k	1-246-858-00	110k	1-246-868-00	750k	1-247-060-00
8.2	1-246-758-00	56	1-246-768-00	390	1-246-778-00	2.7k	1-246-788-00	18k	1-246-798-00	120k	1-246-808-00	820k	1-247-052-00
9.1	1-246-819-00	62	1-246-829-00	430	1-246-839-00	3.0k	1-246-849-00	20k	1-246-859-00	130k	1-246-869-00	910k	1-247-061-00
10	1-246-759-00	68	1-246-769-00	470	1-246-779-00	3.3k	1-246-789-00	22k	1-246-799-00	150k	1-246-809-00	1 M	1-247-053-00
11	1-246-820-00	75	1-246-830-00	510	1-246-840-00	3.6k	1-246-850-00	24k	1-246-860-00	160k	1-246-870-00	—	—
12	1-246-760-00	82	1-246-770-00	560	1-246-780-00	3.9k	1-246-790-00	27k	1-246-800-00	180k	1-246-810-00	—	—

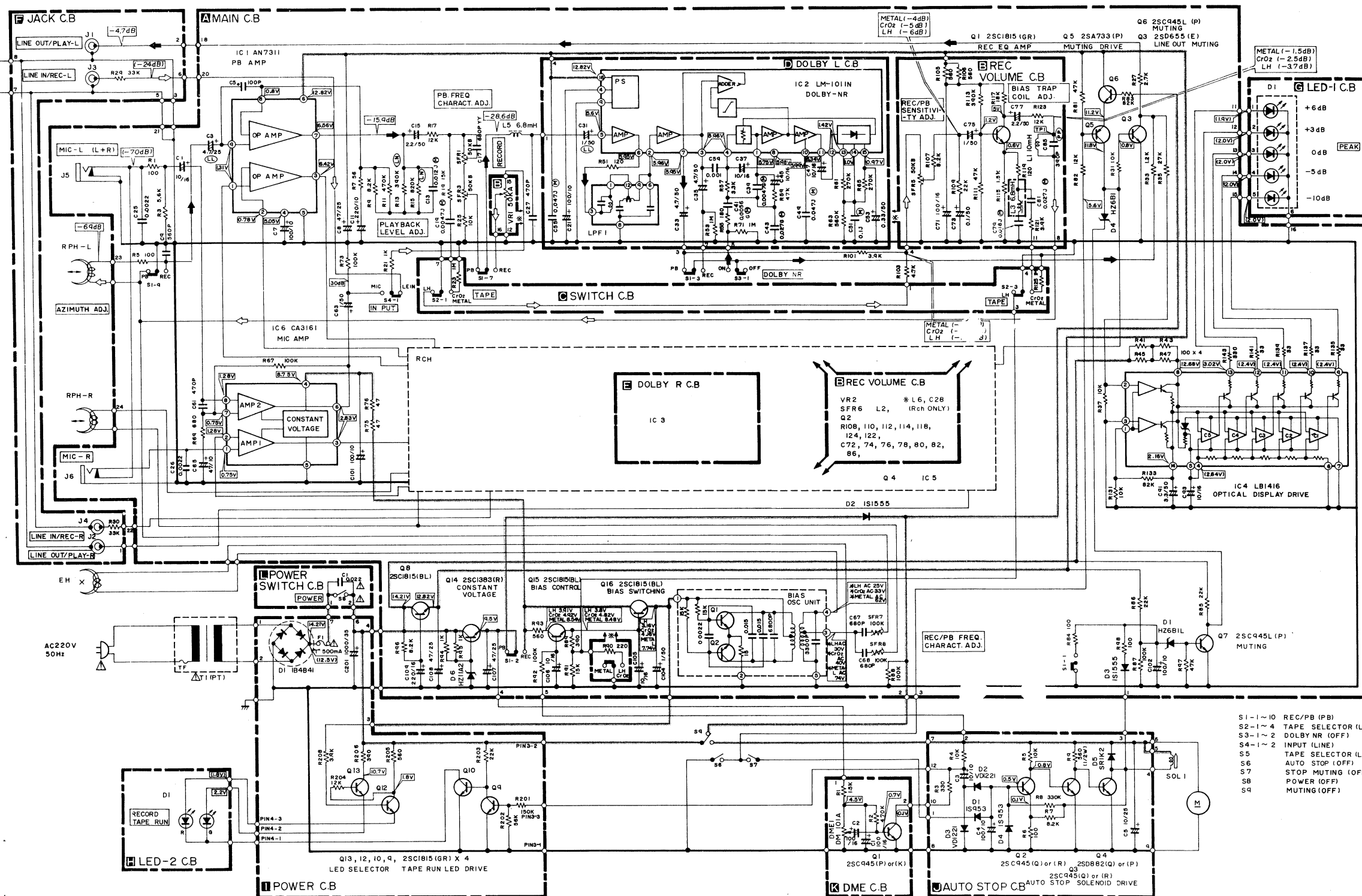
BLOCK DIAGRAM = V210



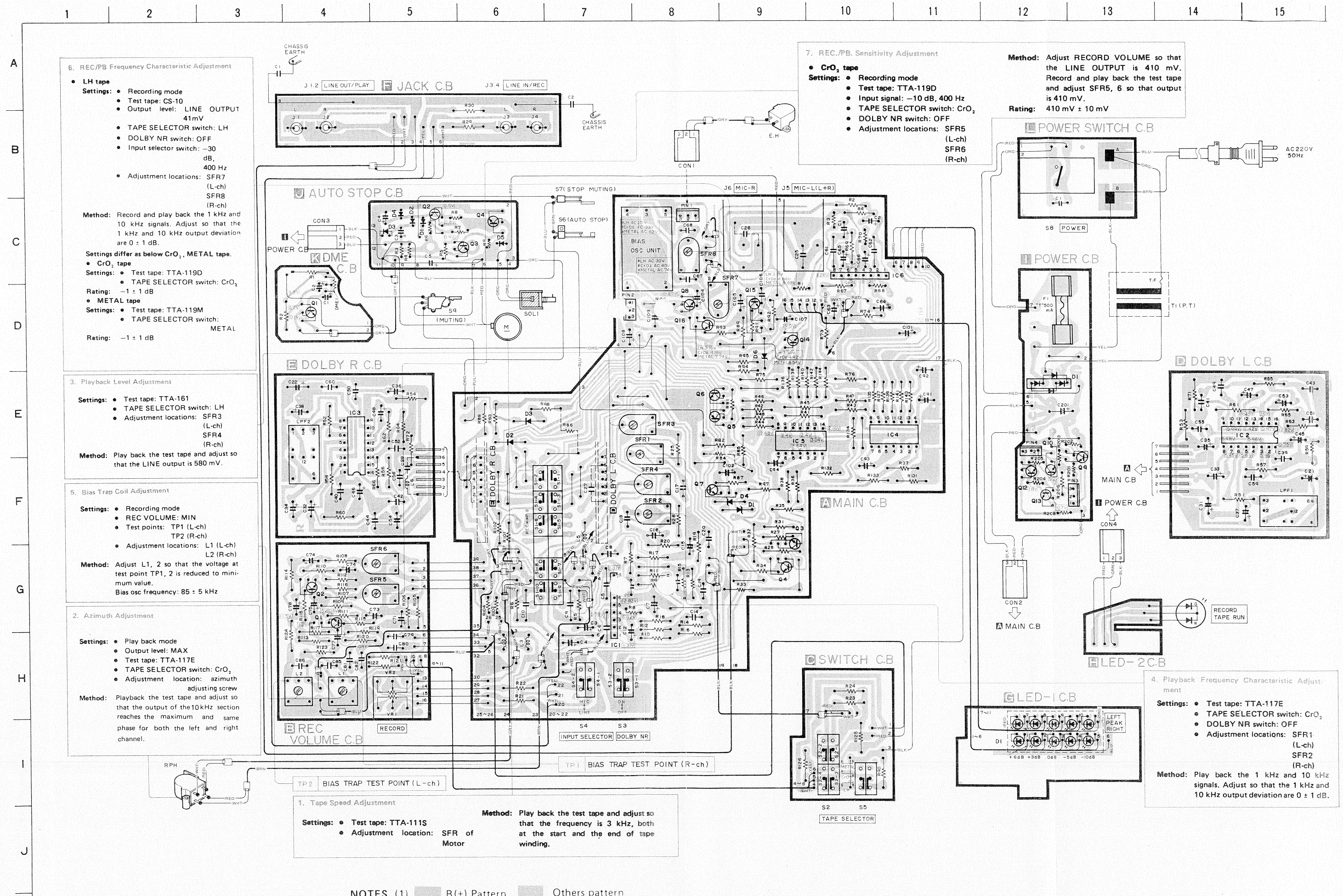
LEVEL DIAGRAM = V210



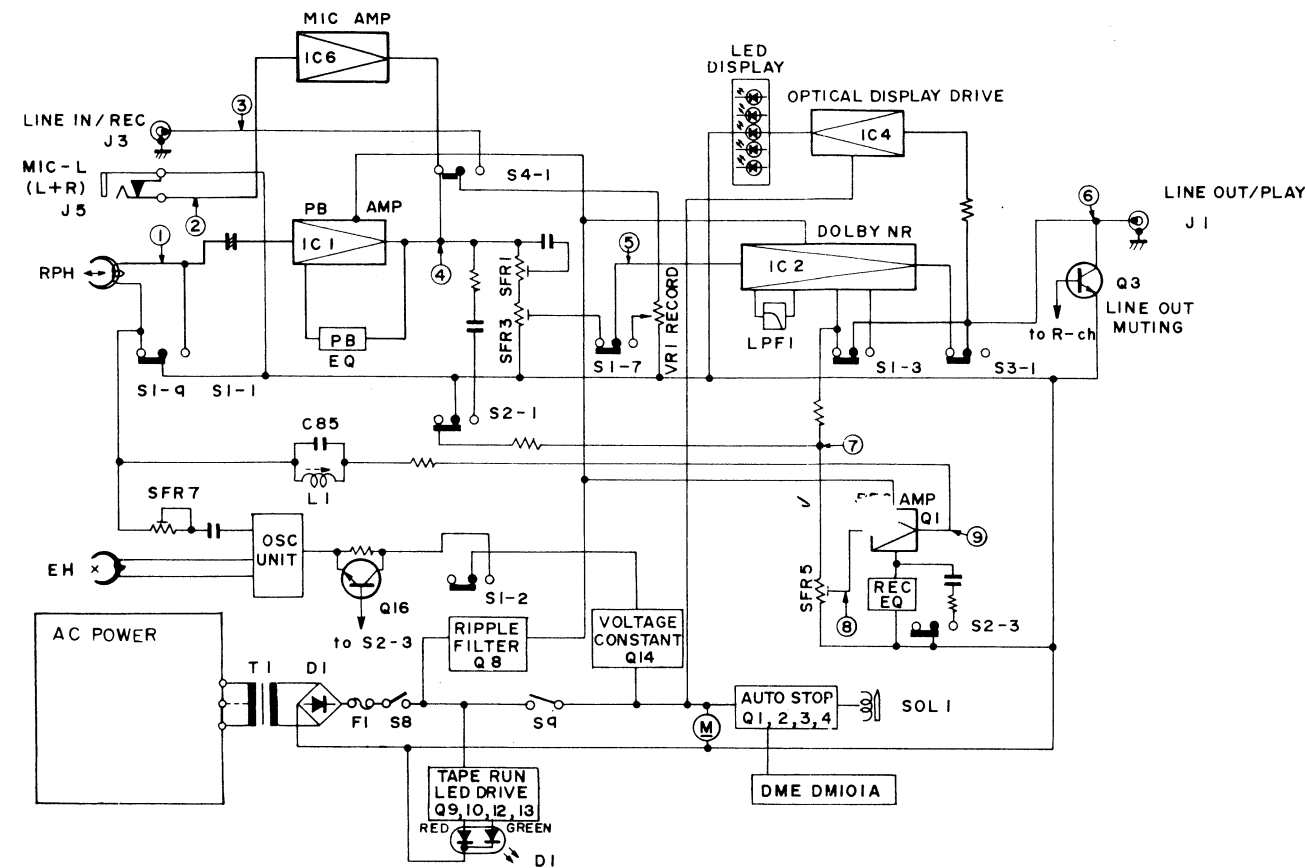
SCHEMATIC DIAGRAM = C210



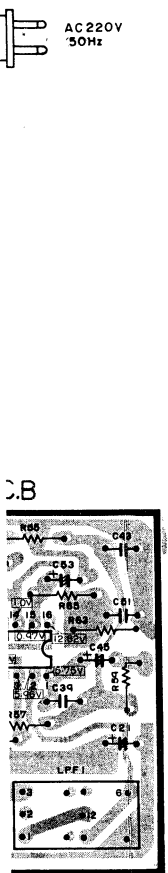
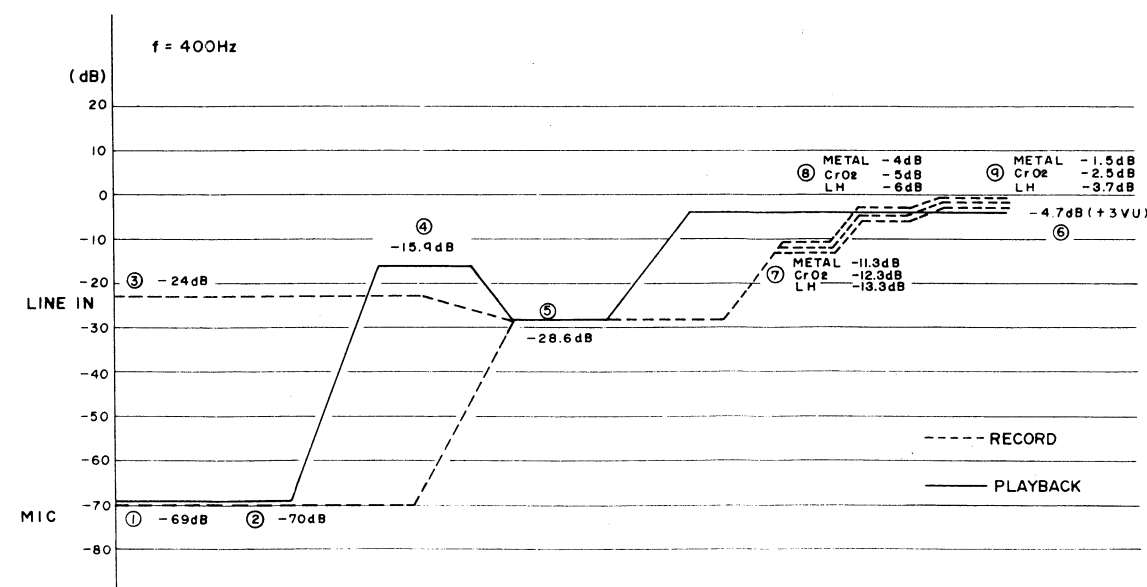
WIRING = C210



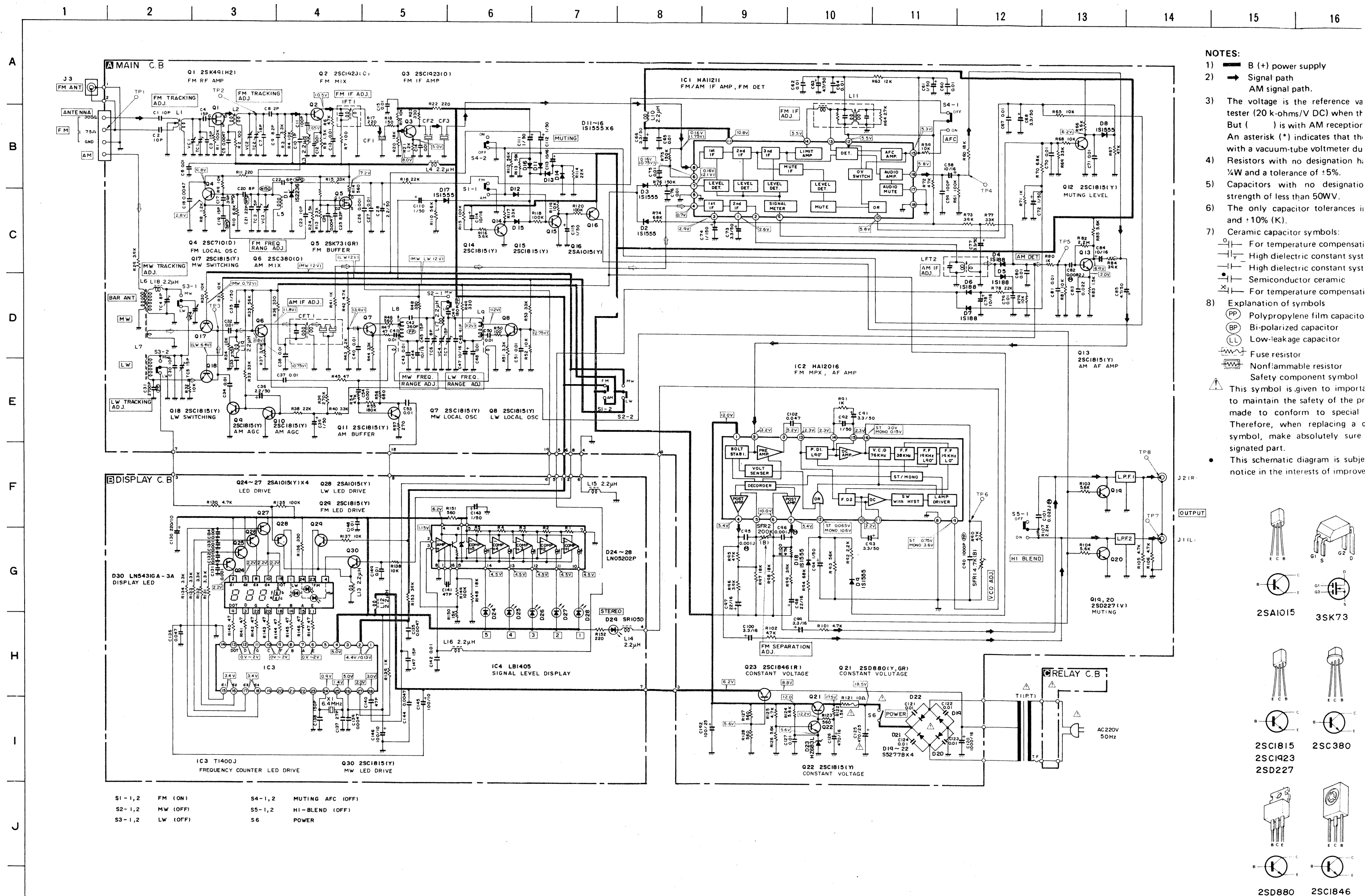
BLOCK DIAGRAM = C210



LEVEL DIAGRAM = C210



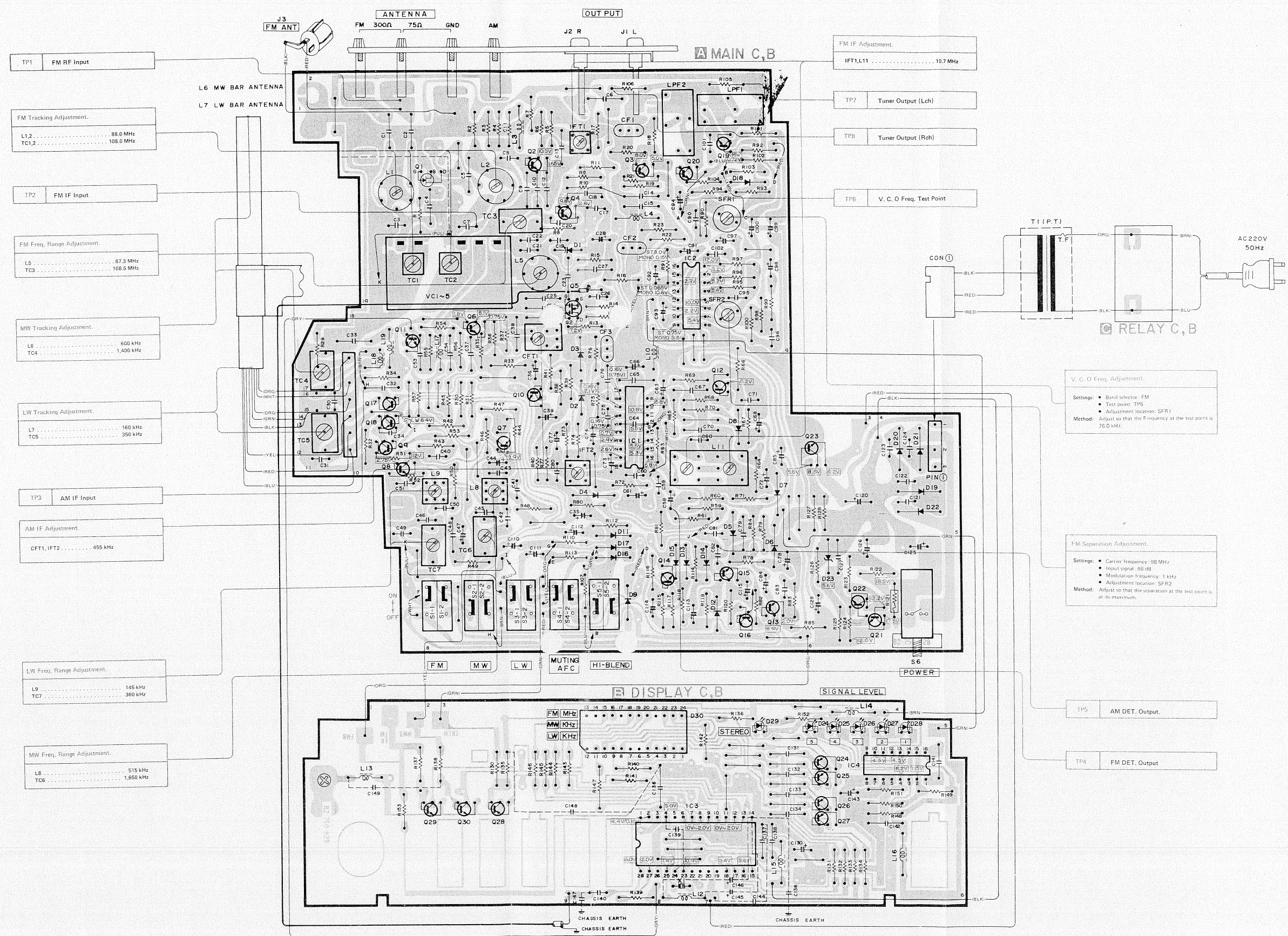
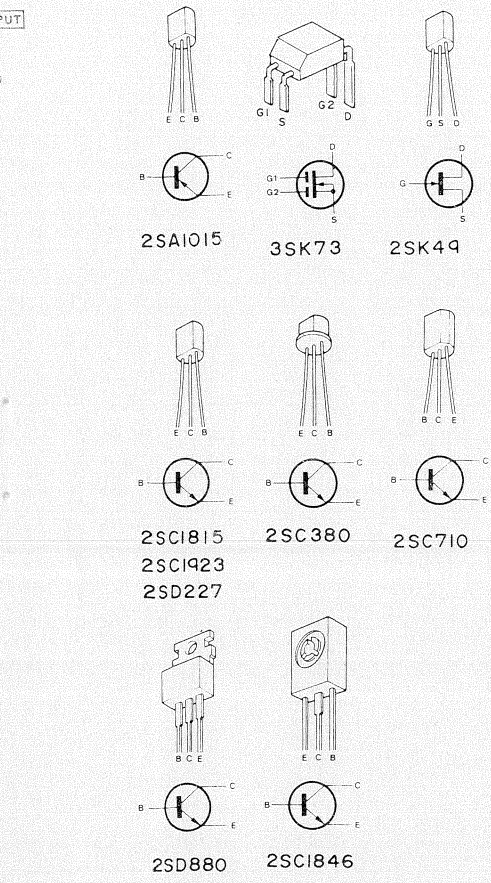
SCHEMATIC DIAGRAM = T210



WIRING = T210

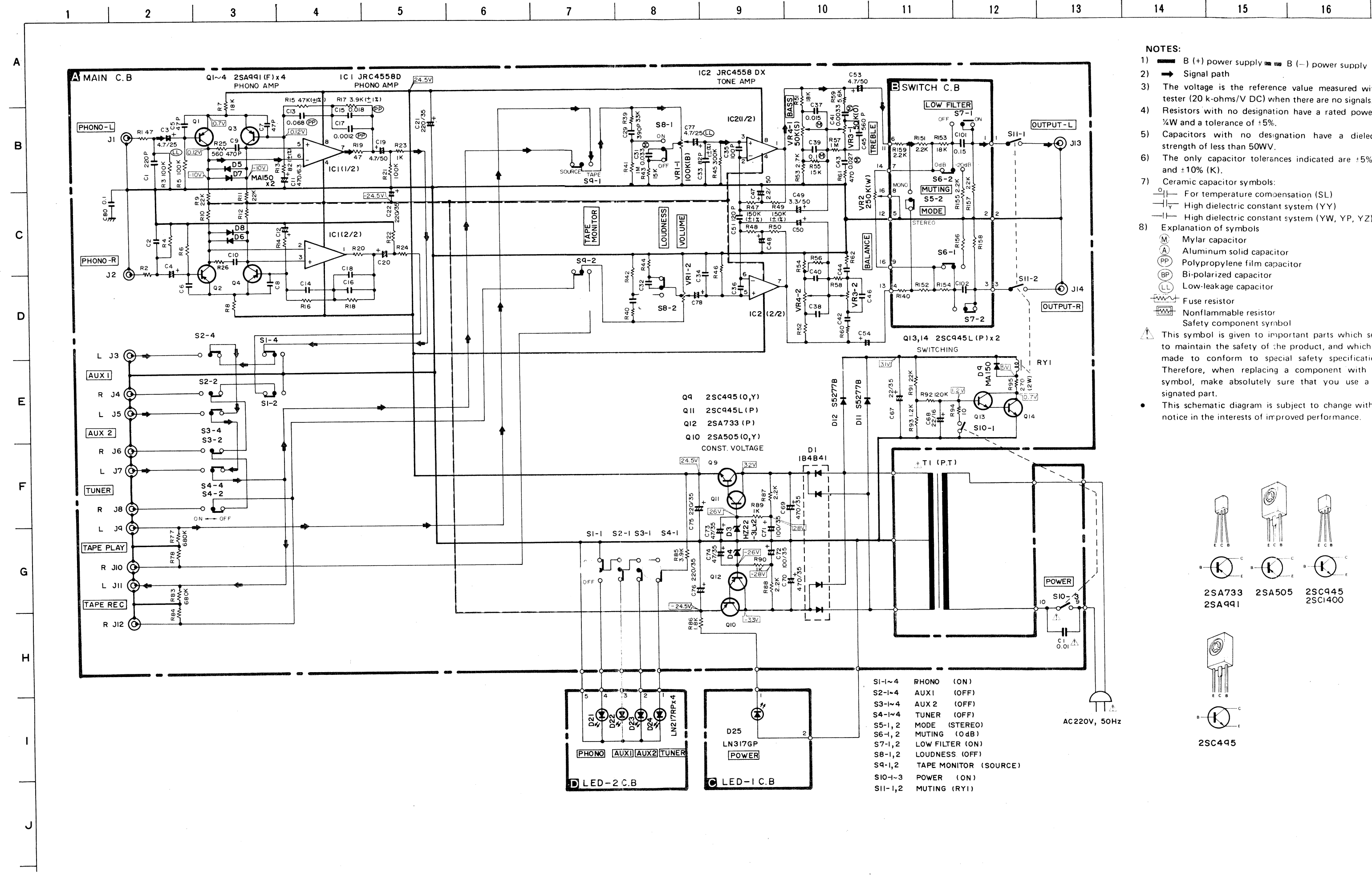
NOTES:

- 1) B (+) power supply
 - 2) Signal path
 - 3) The voltage is the reference value measured with a tester (20 k-ohms/V DC) when there are no signals. But () is with AM reception
 - 4) Resistors with no designation have a rated power of 1/4W and a tolerance of ±5%.
 - 5) Capacitors with no designation have a dielectric strength of less than 50WV.
 - 6) The only capacitor tolerances indicated are ±5% (J) and ±10% (K).
 - 7) Ceramic capacitor symbols:
 - For temperature compensation (SL)
 - High dielectric constant system (YY)
 - High dielectric constant system (YW, YP, YZ)
 - Semiconductor ceramic
 - For temperature compensation (SH)
 - 8) Explanation of symbols
 - Polypropylene film capacitor
 - Bi-polarized capacitor
 - Low-leakage capacitor
 - Fuse resistor
 - Nonflammable resistor
 - Safety component symbol
- This symbol is given to important parts which serve to maintain the safety of the product, and which are made to conform to special safety specifications. Therefore, when replacing a component with this symbol, make absolutely sure that you use a designated part.
- This schematic diagram is subject to change without notice in the interests of improved performance.

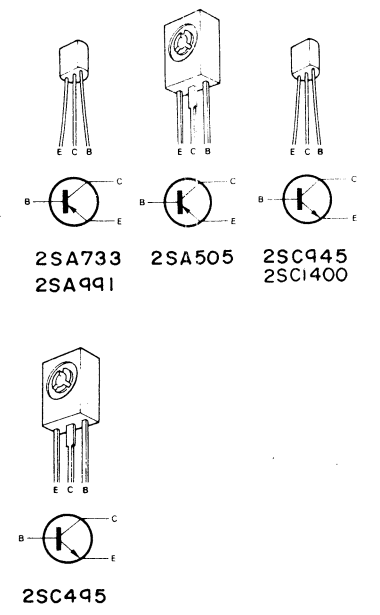


- NOTES (1) B(+) Pattern Others pattern
- (2) The voltage is the reference value measured with a tester (20 K ohms/V DC) when there are no signals. But () is with AM reception.

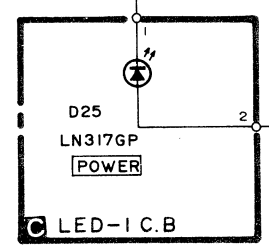
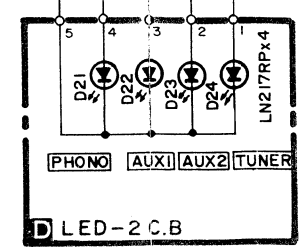
SCHEMATIC DIAGRAM = CV210



- NOTES:**
- 1) B (+) power supply B (-) power supply
 - 2) Signal path
 - 3) The voltage is the reference value measured with tester (20 k-ohms/V DC) when there are no signals.
 - 4) Resistors with no designation have a rated power 1/4W and a tolerance of $\pm 5\%$.
 - 5) Capacitors with no designation have a dielectric strength of less than 50WV.
 - 6) The only capacitor tolerances indicated are $\pm 5\%$ and $\pm 10\%$ (K).
 - 7) Ceramic capacitor symbols:
 - For temperature compensation (SL)
 - High dielectric constant system (YY)
 - High dielectric constant system (YW, YP, YZ)
 - 8) Explanation of symbols
 - Mylar capacitor
 - Aluminum solid capacitor
 - Polypropylene film capacitor
 - Bi-polarized capacitor
 - Low-leakage capacitor
 - Fuse resistor
 - Nonflammable resistor
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- S1-1~4 PHONO (ON)
S2-1~4 AUX1 (OFF)
S3-1~4 AUX2 (OFF)
S4-1~4 TUNER (OFF)
S5-1,2 MODE (STEREO)
S6-1,2 MUTING (0dB)
S7-1,2 LOW FILTER (ON)
S8-1,2 LOUDNESS (OFF)
S9-1,2 TAPE MONITOR (SOURCE)
S10-1~3 POWER (ON)
S11-1,2 MUTING (RY1)



AC220V, 50Hz

WIRING = CV210

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power supply B (-) power supply path

is the reference value measured with a ohms/V DC) when there are no signals.

with no designation have a rated power of tolerance of $\pm 5\%$.

with no designation have a dielectric less than 50WV.

capacitor tolerances indicated are $\pm 5\%$ (J) (K).

capacitor symbols:

temperature compensation (SL)

dielectric constant system (YY)

dielectric constant system (YW, YP, YZ)

of symbols

apacitor

um solid capacitor

polyene film capacitor

ized capacitor

orage capacitor

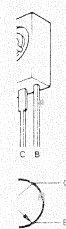
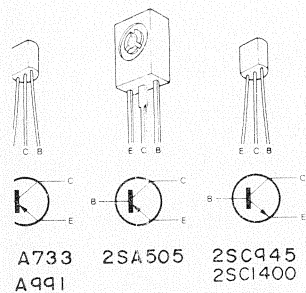
istor

nmable resistor

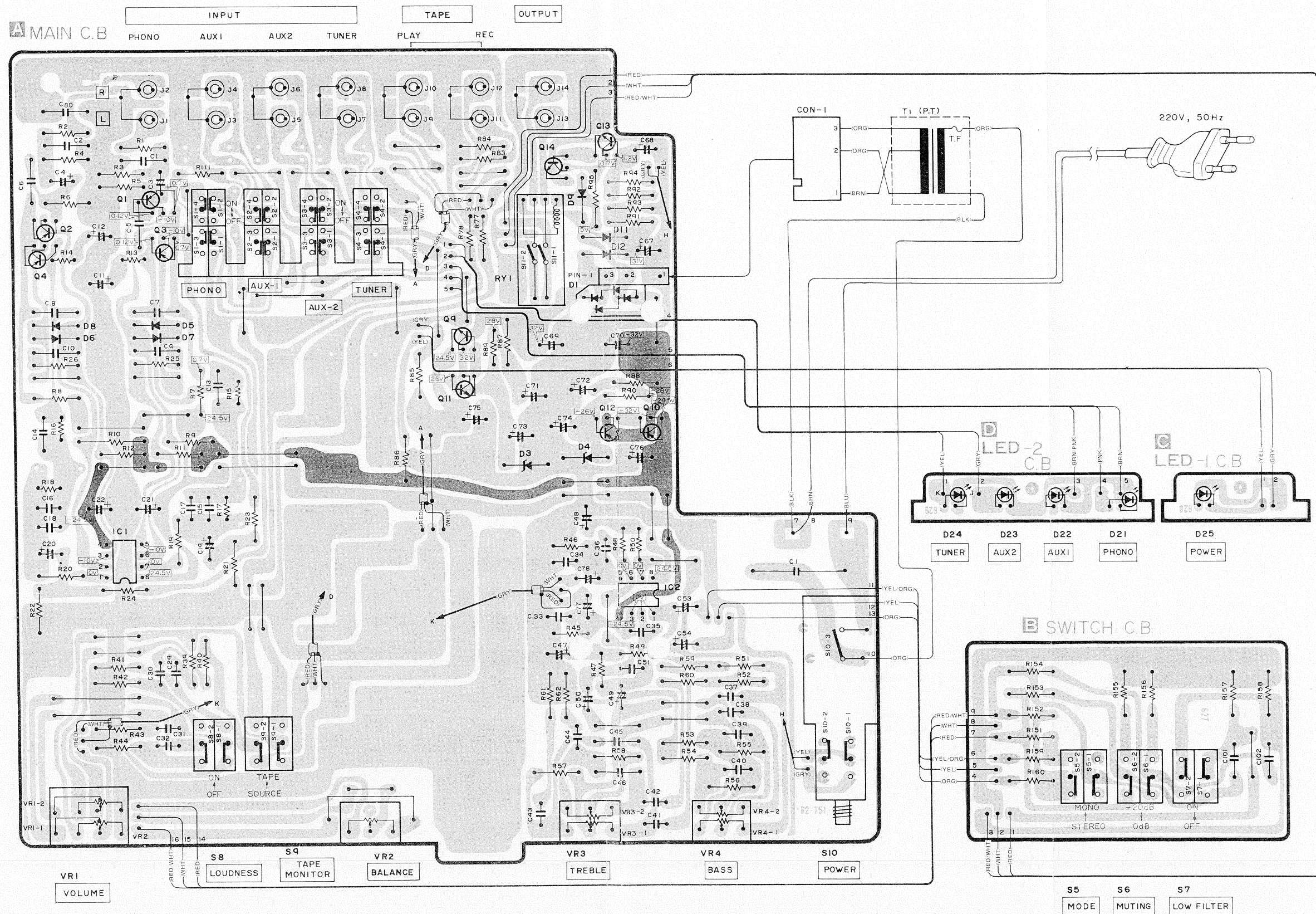
component symbol

is given to important parts which serve the safety of the product, and which are inform to special safety specifications. when replacing a component with this ke absolutely sure that you use a de-

tic diagram is subject to change without interests of improved performance.



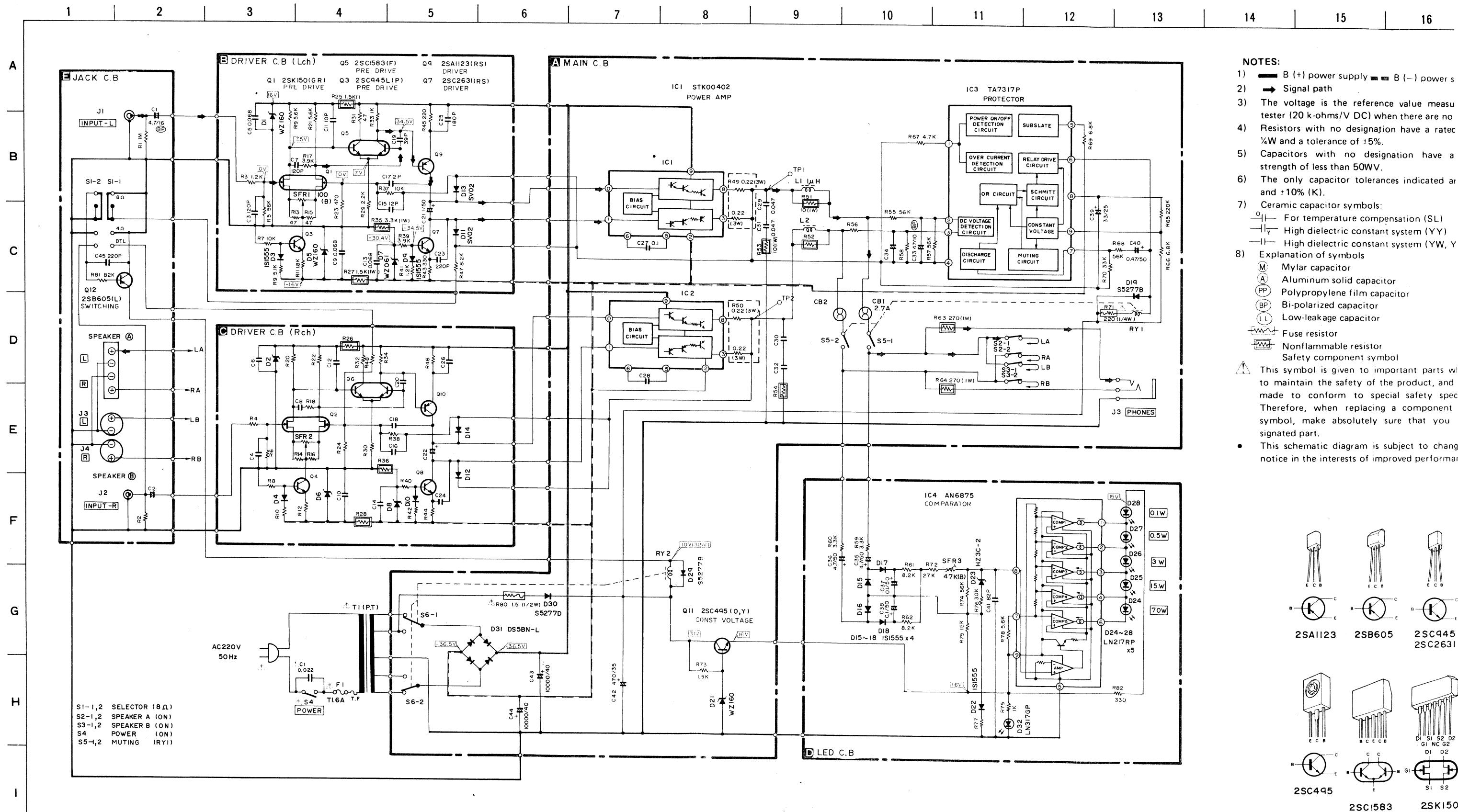
495



NOTES (1) B(+) Pattern B(-) Pattern Others pattern

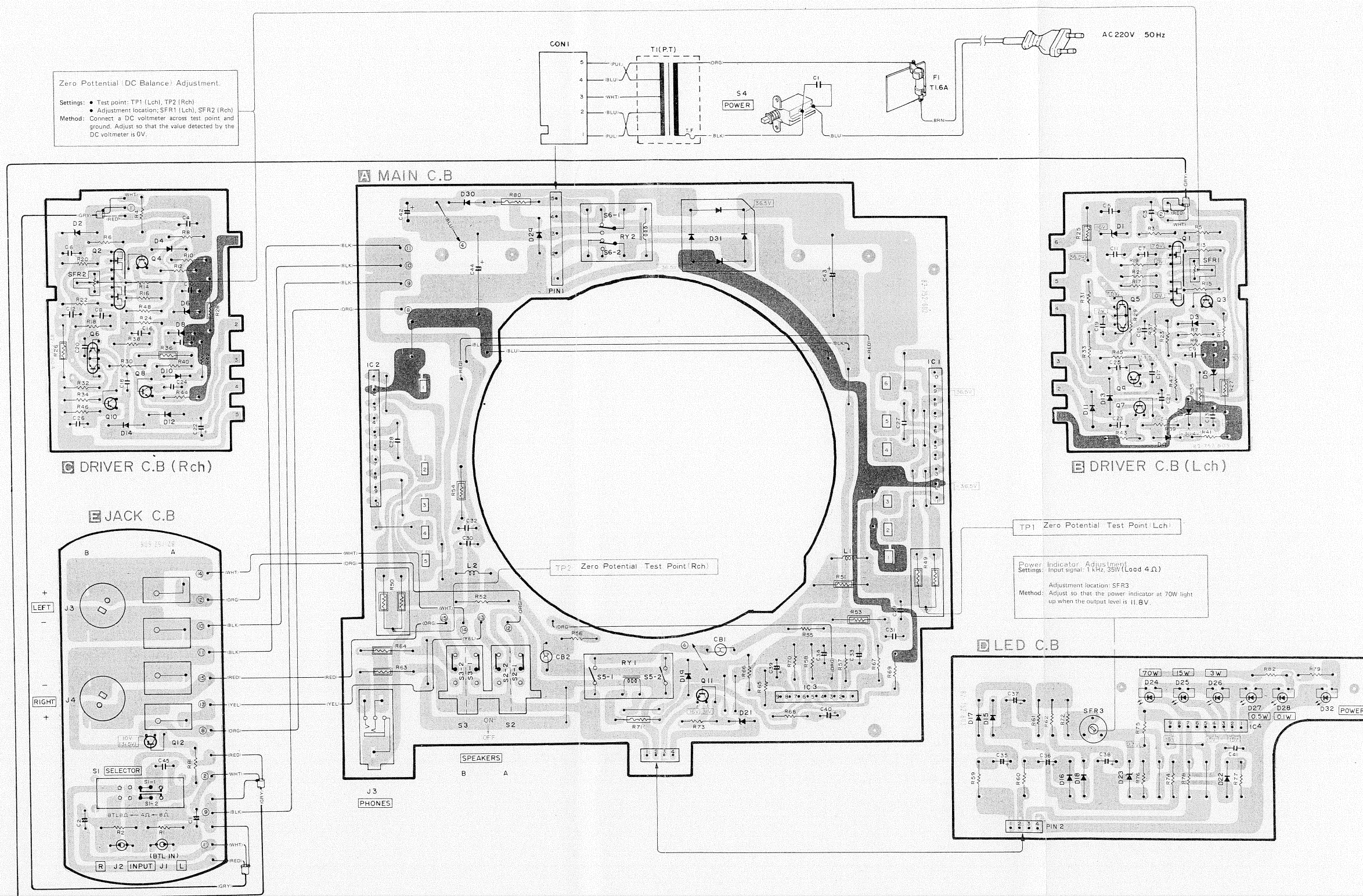
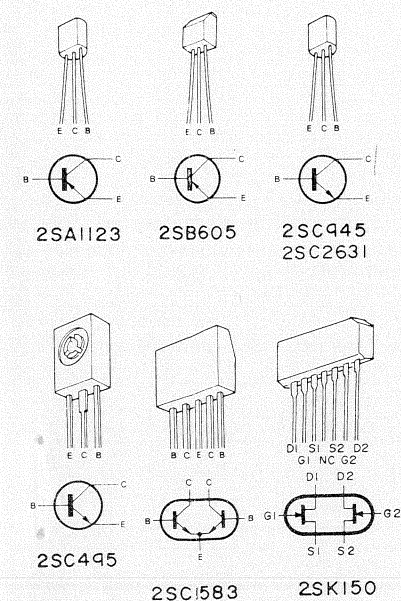
(2) The voltage is the reference value measured with a tester (20 K ohms/V DC) when there are no signals.

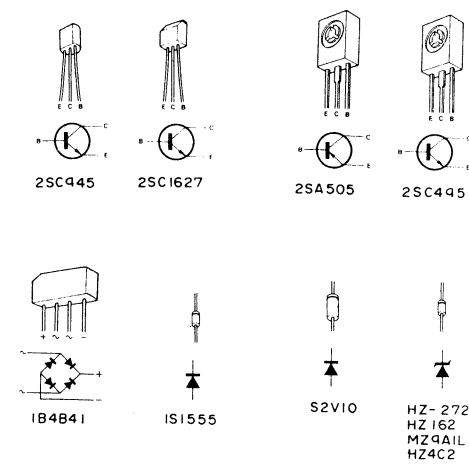
SCHEMATIC DIAGRAM = PV210



WIRING = PV210

B (+) power supply B (-) power supply
Signal path
voltage is the reference value measured with a
(20 k-ohms/V DC) when there are no signals.
resistors with no designation have a rated power of
and a tolerance of $\pm 5\%$.
capacitors with no designation have a dielectric
strength of less than 50WV.
only capacitor tolerances indicated are $\pm 5\%$ (J)
10% (K).
capacitor symbols:
For temperature compensation (SL)
High dielectric constant system (YY)
High dielectric constant system (YW, YP, YZ)
Variation of symbols
Mylar capacitor
Aluminum solid capacitor
Polypropylene film capacitor
Bi-polarized capacitor
Low-leakage capacitor
Fuse resistor
Nonflammable resistor
Safety component symbol
symbol is given to important parts which serve
to maintain the safety of the product, and which are
to conform to special safety specifications.
Therefore, when replacing a component with this
symbol, make absolutely sure that you use a de-
signed part.
This schematic diagram is subject to change without
notice in the interests of improved performance.

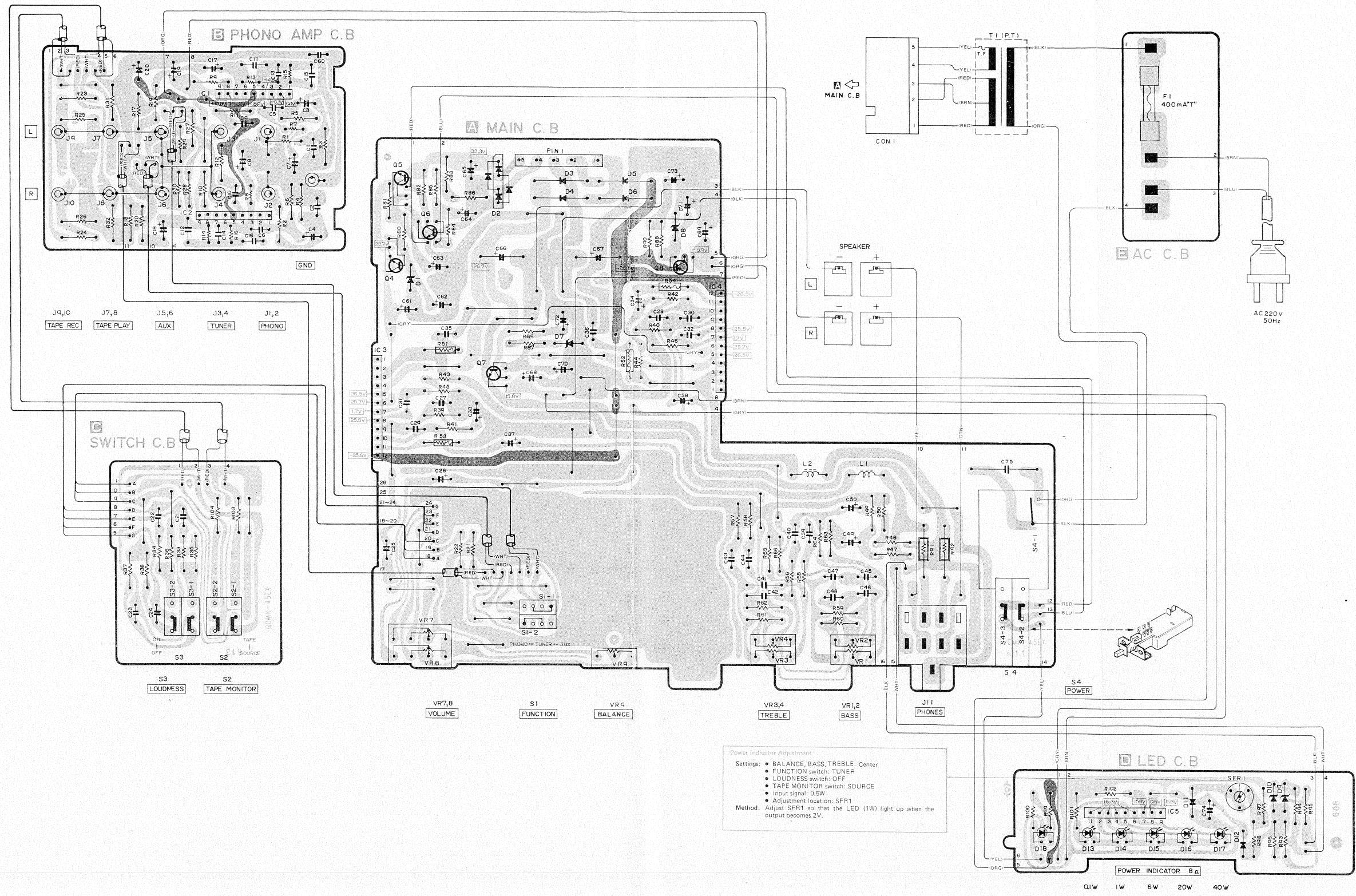
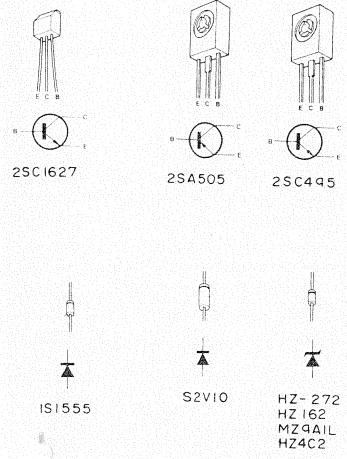




WIRING = V210

15 16 17 18 19 20 21 22 23 24 25 26 27 28 29

Power supply  B (+) power supply path
is the reference value measured with a ohms/V DC) when there are no signals.
th no designation have a rated power of
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with no designation have a dielectric
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apacitor tolerances indicated are ±5% (J
(K).
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NOTES (1)  B(+) Pattern  B(-) Pattern  Others pattern
(2) The voltage is the reference value measured with a tester (20 K ohms/V DC) when there are no signals.